NAVSEA
STANDARD ITEM

FY-03

ITEM NO: 009-32
DATE: 30 AUG 2001
CATEGORY: II

1. SCOPE:

1.1 Title: Cleaning and Painting Requirements; accomplish

2. REFERENCES:

a. Standard Items

b. S9086-VD-STM-010/020/030/CH-631, Volumes 1, 2 and 3, Preservation of Ships in Service

c. S9086-VG-STM-010/CH-634, Deck Coverings

d. ASTM F718, Shipbuilders and Marine Paints and Coatings Product/Procedure Data Sheet

e. 29 CFR 1915, ***Occupational Safety and Health Standards for Shipyard Employment,*** Subparts C and Z

f. Systems and Specifications, Steel Structures Painting Manual, Volume 2

g. ASTM D4417, Standard Test Methods for Field Measurement of Surface Profile of Blast Cleaned Steel

h. S9086-CN-STM-010/CH-79, Volume 2, Damage Control - Practical Damage Control

i. S9086-RK-STM-010/CH-505, Piping Systems

3. REQUIREMENTS:

3.1 Submit one legible copy of a time schedule prior to the start of preservation operations for the following coating systems (including stripe coating where applicable):

TABLE	LINE
One	All
2	All except ***11***

TABLE	LINE
3	Lines ***16 through 18***, 20 and 21
4 through 8	All
9	One through ***6***
10	4 ***and*** 11 through ***18***
11	All
12	All
15	All
16	All
17	Line One

3.1.1 Accomplish the requirements of 009-09 of 2.a for coating systems applications to areas listed in 3.4.

3.2 Provide a written notice to the SUPERVISOR and the Commanding Officer's ***designated*** representative of potential exposure of personnel to toxic or hazardous substances.

3.2.1 Post the notice at the ship's Quarterdeck or other designated location for each job or separate area at least four hours, but not more than 24 hours, prior to the start of work. The notice shall contain the following information:

3.2.1.1 Ship's name and hull number

3.2.1.2 Work Item number

3.2.1.3 Compartment or frame number

3.2.1.4 Identification of hazard

3.2.1.5 Date and time of work process

3.2.1.6 Identification of engineering and work practice controls

3.2.2 Deliver notification of work planned over a weekend or Monday following that weekend to the Commanding Officer's ***designated*** representative not later than 0900 on the Friday immediately preceding that weekend.

3.2.3 Deliver notification of work planned on a federal holiday and on the day following the federal holiday to the Commanding Officer's ***designated*** representative not later than 0900 on the last working day preceding the federal holiday.

3.3 Submit material certification of abrasive blast media conforming to MIL-A-22262 prior to blasting. The abrasive blast medium must be listed on the Qualified Products List (QPL) QPL 22262, or have written notification from NAVSEA 03Q that it meets the requirements of MIL-A-22262.

3.4 Record and maintain records in accordance with Section 11 of 2.b and Paragraph 634-3.35 of 2.c, containing the required information on preservation of freeboard, and hangar, flight, catapult, and vertical replenishment decks, chain lockers, underwater hull surfaces of the ship, and interior surfaces of intake vent plenums***, defined as combustion air intakes (gas turbine, diesel, and steam) and other vent system intake plenums with openings greater than 7 square feet***, uptake spaces, tanks, voids, cofferdams, well deck overheads, and bilges, and including the following:

3.4.1 Surface preparation method, including name of abrasive and QPL 22262 revision number from which the product was purchased, or copy of NAVSEA 03R42 product approval letter and surface profile readings

3.4.2 Ambient and metal surface temperatures, relative humidity, and dew point at four-hour intervals, ***unless otherwise specified in 2.b or 2.c*** during ***preservation*** process. Information for environment shall be recorded from conditions on-site, in close proximity to the structure.

3.4.3 Name of paint/non-skid, manufacturer, batch number, and date of manufacture and expiration

3.4.4 Material ***safety*** data sheets and 2.d for each proprietary coating used

3.4.5 Surface conductivity or chloride measurements

3.4.6 Elapsed time between coats

3.4.7 Dry film thickness ***(DFT)*** for the total system

3.4.8 Name and type of spray equipment utilized

3.4.9 Record temperature of paint ***and non-skid*** storage 24 hours in advance of ***use***. Temperature shall be maintained within the limits specified in 2.b ***and 2.c*** and shall be recorded once per shift during the 24-hour period prior to use.

3.4.10 Submit four legible copies of recorded information on QA Checklist Forms 631-12.5 of 2.b (see 4.7) and ***Figure 634-3-26*** of 2.c to the SUPERVISOR upon completion of each Work Item.

3.4.11 Submit four legible copies of the manufacturer’s warranty documents to the SUPERVISOR when specified in the Job Order.

3.5 Consider marine coatings to contain heavy metals (e.g., lead, cadmium, or chromium), hexavalent chromium, crystalline silica and/or other toxic or hazardous substances.

3.5.1 Submit four legible copies of the laboratory analysis listing results of personnel monitoring to the SUPERVISOR within 10 working days of any such testing.

3.5.2 Submit four legible copies of a report when no personnel monitoring was conducted, which provides the basis for such a decision not to engage in personnel monitoring, e.g., insufficient time (less than 7 hours) is available to conduct personnel air monitoring.

(V)***(G)*** or (I)(G) "ENVIRONMENTAL READINGS" (See 4.4 for criteria.)

3.6 Ambient and metal surface temperatures, relative humidity, and dew point at a minimum of four-hour intervals during painting process shall be recorded from conditions on-site, in close proximity to the structure being coated.

3.6.1 Coatings applied on areas listed in 3.4 shall be applied only when the temperature of the prepared substrate is greater than 50 degrees Fahrenheit and a minimum of 5 degrees Fahrenheit above the dew point.

3.6.1.1 Euronavy ES301 is exempt from dew point requirement of 3.6.1.

(V)***(G)*** or (I)(G) "CLEANLINESS" (See 4.4 for criteria.)

3.6.2 Accomplish degreasing/cleaning prior to surface preparation to ensure removal of surface contaminants, such as sea salts, loose rust, mud, marine growth, grease, oil, and other petroleum products.

3.6.3 Accomplish the safety precautions as specified in 2.b, 2.e, and the Job Order during surface preparation and the application or removal of marine coatings.

3.6.4 Blasters, painters, and coating inspectors shall be certified in accordance with Section 11 of 2.b.

3.6.5 Select the specific requirements of 2.b, 2.c, and 2.f listed in the application of Tables One through 18 of this item for determining the type of surface preparation required and coating system options that are available for use in accomplishing the work specified unless otherwise directed in the Work Item.

3.6.6 For non-skid coatings, surface preparation methods outlined in Paragraph 634-3.27 of 2.c must be strictly followed.

3.6.7 Limit surfaces being prepared for preservation in size to an area which can be coated prior to the occurrence of flash rusting and/or oxidation. Remove any flash rust prior to painting, except as follows:

3.6.7.1 Surfaces cleaned by hydroblasting or waterjetting shall meet the applicable Standard for flash rust.

3.6.8 Abrasive blast equal to an ***NACE 2/***SSPC-SP-10 of 2.f and prime steel and aluminum plates, shapes, and ferrous piping prior to shipboard installations except in the areas where weld joints remain to be accomplished, or unless specified otherwise in the invoking Work Item.

3.6.9 For disturbed and/or partially preserved or inaccessible areas, the minimum surface preparation shall be that shown in the applicable Tables, except that an SSPC-SP-11 is acceptable for areas originally requiring an ***NACE 2/***SSPC-SP-10 or ***NACE 5/***SSPC-SP-12.

3.6.9.1 Disturbed areas are defined as any surface that requires cleaning and/or painting due to existing paint finish being damaged in the accomplishment of work specified by the Job Order.

3.6.9.2 Closure plates/hull accesses and their associated welds will not be considered a disturbed surface and shall be cleaned and painted by the applicable table. Deviations to the requirements may be authorized by the SUPERVISOR based on size, location, application, or severity of condition of coating system being applied.

3.6.10 Feather edges of well-adhered paint remaining after cleaning.

3.6.11 Clean, prior to painting, insulation and lagging free of foreign matter and contaminants that would prevent adherence of paint.

3.6.12 Clean prepared and previously painted surfaces free of foreign matter which will affect adherence of paint coatings. Inclusions such as dust and debris in the paint film shall be removed prior to the application of the next coat.

3.6.13 Remove foreign matter and debris resulting from cleaning operations.

3.6.14 Record and restore existing painted labels, compartment designations, hull markings, and other painted information which will be removed or covered during cleaning and painting operations.

3.6.15 Install masking material for protection of equipment and items not to be painted during preservation. Shipboard items not to be painted are listed in Paragraphs 631-8.22 of 2.b.

(V)(G) or (I)(G) "SURFACE PROFILE" (See 4.4 for criteria.)

3.6.16 Following blasting operations, surface peak-to-valley profile must be checked. If profile of 2 to 3 mils is not present, profile must be established, based upon 5 readings per 1,000 square feet. Profile measurements shall be taken in accordance with Method C of 2.g.

3.6.16.1 When surface profile requirements of the manufacturer's instructions are greater than that specified in this item, they shall supersede this item.

(V)***(G)*** or (I)(G) "SURFACE PREPARATION" (See 4.4 for criteria.)

3.6.17 Verify surface preparation for the coating systems specified in 3.1.

(I)(G) "CONDUCTIVITY OR CHLORIDE MEASUREMENT"

3.6.18 Accomplish conductivity or chloride measurements for the Tables and Lines listed in 3.1.

3.6.18.1 Accomplish surface chloride checks or conductivity checks using available field or laboratory test equipment on the freshly prepared surface. Five determinations shall be conducted every 1,000 square feet. Areas less than 1,000 square feet shall have five determinations made. For immersed applications, such as tanks and bilges, chloride measurements shall not exceed 3 ug/cm^2 (30 mg/m^2) nor shall the conductivity measurements exceed 30 microsiemens/cm. For non-immersed applications, chloride measurements shall not exceed 5 ug/cm^2 (50 mg/m^2) nor shall the conductivity measurements exceed 70 microsiemens/cm. If the chloride or conductivity measurements exceed the respective values, water wash the affected areas with fresh water. Dry the affected areas and remove all standing water. Accomplish surface chloride and conductivity checks on affected areas. Repeat step until satisfactory levels are obtained. Flash rust/surface oxidation is prohibited for tanks, floodable voids, non-skid and well deck overhead applications and must be removed. All other areas shall not exceed light, tightly adherent flash rust as described in NOTE (22).

3.7 Store paint in a cool, dry place, do not expose to freezing temperatures or direct sunlight, and in accordance with manufacturer's instructions. Storage of non-skid coatings shall be in accordance with Table 634-3-4 of 2.c.

3.8 Coating systems shall be applied in accordance with the applicable tables and 2.b.

3.8.1 For commercial underwater hull coating systems including anti-corrosive paints and anti-fouling paints, the manufacturer's primer must be used with his anti-fouling coating. No substitution is allowed.

3.8.1.1 Successive coats of anti-corrosive paints shall be of a contrasting color.

3.8.2 Utilize water-based latex fire retardant paints in preference to chlorinated alkyd based fire retardant paints. Such paints are available under MIL-PRF-24596 or a Naval Sea Systems Command (NAVSEA) approved product

(Formula 25A). Accomplish the surface preparation and coating application requirements of 2.b when using water-based paints.

3.8.3 Apply the first coat of MIL-P-15931 (Formulas 121/129) or MIL-PRF-24647 anti-fouling paint when the last coat of epoxy paint is still slightly tacky (approximately four to six hours after paint application). Tacky is defined as that curing (drying) stage when a fingertip pressed lightly against the film leaves only a slight impression and none of the film sticks to the finger. If the epoxy is hard (usually eight hours after application), apply a tack coat of epoxy paint one to two mils ***wet film thickness (***WFT***)*** over previously painted surfaces. ***The tack coat shall be allowed to cure (dry) to when a fingertip pressed lightly against the film leaves only a slight impression and none of the film sticks to the finger, then apply the next full coat of the system.***

3.8.4 Mix and apply the approved proprietary coatings in accordance with manufacturer's instructions, except for requirements when invoked for surface preparation and minimum ***DFT*** as specified in Tables One, 4, 5, 6, 7, and 15. The requirements of 3.8.3 also apply to manufacturers' proprietary coatings.

3.8.5 Mix and apply the Navy Polyamide Epoxy MIL-DTL-24441 coatings in accordance with the following, except the ***DFT*** shall be as specified in Tables One through 11, 14, and 15. The MIL-DTL-24441 coatings mixing ratio is one-to-one by volume. The components of the various formulas are not interchangeable. Blend each component thoroughly prior to mixing the components. After mixing equal volumes of the two components, the mixture must be thoroughly stirred***. For Type III only,*** the stand-in times listed below must be observed.

3.8.5.1 Stand-in time (induction time) is defined as the time immediately following the mixing of the components A and B during which the critical reaction period of these components is initiated and is essential to the complete curing of the coating. During stand-in time the mixture must be thoroughly stirred at least once every 20 minutes to avoid hot spots caused by localized overheating from the chemical reaction.

Surface Temperature at Job Site (Degrees Fahrenheit)	Stand-In Time in Hours
35 to 50	2 hours at 70 degrees Fahrenheit (paint temperature)
50 to 60	2 hours at job site temperature
60 to 70	one hour to 1-1/2 hours at job site temperature
70 and Above	1/2 to one hour at job site temperature

(V)***(G)*** or (I)(G) "STRIPE COAT INSPECTION" (See 4.4 for criteria.)

3.8.6 Apply stripe coat to weld seams, cutouts, corners, edges, and butts in tanks, bilges, well deck overheads***, and edges and welds of attachments and appendages on exterior surfaces above the boottop*** in accordance with the coating manufacturer's instructions. Stripe coat the edges, weld seams, foot/hand holds (including inaccessible areas, such as back side of piping, under side of I-beams), and other mounting hardware (non-flat surface) after the prime coat has dried. The stripe coat shall encompass all edges, as well as at least one-inch border outside each edge. Stripe coating applied shall be neat in appearance, minimizing extra thickness applied to edges, as well as streaks and drops of paint. Stripe coating should be done whenever represerving. The stripe coat shall encompass all edges as well as at least a one-inch border outside each edge and weld.

3.8.6.1 Apply one stripe coat after the primer (or mist coat after inorganic zinc) for MIL-PRF-23236 coatings.

3.8.6.2 Apply one stripe coat after the primer for MIL-DTL-24441 coat system and another stripe coat after the intermediate coat, but prior to final coat. For a two-coat system, only one stripe coat is required.

3.8.6.3 Each stripe coat shall be unthinned paint of the specified paint system and shall be a different color from both the paint over which it is being applied and the next coat in the system. First coat inspection shall be conducted prior to stripe coat application.

3.8.7 Drying time between coats of specified coating for potable and feedwater tanks shall be a minimum of 48 hours at a minimum temperature of 70 degrees Fahrenheit, using heated air if necessary to maintain temperature. Ventilation shall be sufficient to ensure continuous flow of air through the tanks with at least one complete air change every four hours. Mixing and stand-in times (induction times) shall be in accordance with manufacturer's instructions.

3.8.8 Cure potable and feedwater tank coatings for at least seven consecutive days prior to filling with water. Maintain a temperature of 70 degrees Fahrenheit within the tanks. Ventilation shall ensure continuous flow of air with a minimum of one complete air change every four hours.

3.8.8.1 Freshly painted potable water tanks shall be rinsed at least twice with fresh water to ensure cleanliness of tank.

(I)(G) "INSPECT TANK"

3.8.8.2 Inspect tank for cleanliness and coating integrity.

3.9 Prior to application of any silicon alkyd product, such as MIL-PRF-24635, over an epoxy coating, allow epoxy to dry to at least a tacky state as defined in 3.8.3, before overcoating with any silicon alkyd product.

3.10 Overcoating of MIL-DTL-24441 with MIL-DTL-24441:

3.10.1 If less than 7 days has elapsed since the application of the prior coat, the next coat may be applied after visual inspection to confirm the absence of grease, dirt, salts, or other surface contaminants. If surface contamination is suspected as a result of visual inspection or for other reasons, the entire surface shall be cleaned using a fresh water and detergent wash, followed by a fresh water rinse. The next coat of MIL-DTL-24441 shall be applied after surfaces are completely dried.

3.10.2 If more than 7 days but less than 30 days has elapsed since the application of the prior coat, the entire surface shall be cleaned using a fresh water and detergent wash followed by a fresh water rinse. Ensure the surface has fully dried, then apply a tack coat (one to 2 mils WFT) of the last coat applied or Formula 150. The tack coat shall be allowed to cure (dry) to when a finger***tip*** pressed lightly against the film leaves only a slight impression and none of the film sticks to the finger, then apply the next full coat of the system.

3.10.3 If greater than 30 days has elapsed since the application of the prior coat, the entire surface shall be cleaned using a fresh water and detergent wash, followed by a fresh water rinse. After allowing the surface to dry, the surface shall be lightly abraded using a brush-off abrasive blast (preferred), power sanding, or hand sanding, then apply the next full coat of the system.

3.11 Overcoating of MIL-DTL-24441 with non-MIL-DTL-24441 (proprietary) topcoats:

3.11.1 The non-MIL-DTL-24441 topcoat shall be applied before the MIL-DTL-24441 base coat has hardened (while still tacky as defined in 3.8.3).

3.11.1.1 If the MIL-DTL-24441 base coat has hardened but less than 30 days has elapsed, the entire surface shall be cleaned using a fresh water and detergent wash, followed by a fresh water rinse. Ensure the surface has fully dried, then apply a tack coat (one to 2 mils WFT) of the last coat applied or Formula 150. The tack coat shall be allowed to cure (dry) to when a finger***tip*** pressed lightly against the film leaves only a slight impression and none of the film sticks to the finger, then apply the next full coat of the non-MIL-DTL-24441 system.

3.11.1.2 If greater than 30 days has elapsed since the application of the prior coat, the entire surface shall be cleaned using a fresh water and detergent wash, followed by a fresh water rinse. After allowing the surface to dry, the surface shall be lightly abraded using a brush-off abrasive blast (preferred), power sanding, or hand sanding, then

apply a full coat of MIL-DTL-24441. Let this coat dry to a tacky state as defined in 3.8.3, then apply the next full coat of the non-MIL-DTL-24441 system.

3.12 Overcoating of non-MIL-DTL-24441 (proprietary) epoxy coatings:

3.12.1 Follow the manufacturer's direction for the allowable overcoat window, not to exceed 30 days. The 30-day maximum may be extended beyond 30 days if specifically approved in writing by NAVSEA. Where the basecoat and topcoat are provided from different manufacturers, the term "manufacturer" refers to the manufacturer of the basecoat.

3.12.1.1 If either the manufacturer's recommendation or the 30-day window (or a specific extension approved by NAVSEA) has been exceeded, the coating shall be reactivated by either following the manufacturer's recommendation for re-activating the surface or cleaning the entire surface using a fresh water and detergent wash, followed by a fresh water rinse. After allowing the surface to dry, the surface shall be lightly abraded using a brush-off abrasive blast (preferred), power sanding, or hand sanding.

3.12.1.2 Apply the next full coat of the proprietary system, if used. If MIL-DTL-24441 is being used for the topcoat, apply one full coat of MIL-DTL-24441 Formula 150, let dry to a tacky state as defined in 3.8.3, then apply one full coat of MIL-DTL-24441 of the desired color.

3.12.2 Comply with the time requirements of 2.c for application of non-skid over primer coat.

(V)***(G)*** or (I)(G) "FILM THICKNESS" (See 4.4 for criteria.)

3.13 Measure ***DFT*** of each coat applied for the coating systems listed in 3.4.

3.13.1 ***When measuring full coats, DFT*** readings shall not be taken in areas where stripe coatings have been applied.

3.13.2 ***DFT readings*** for each coat shall be taken in accordance with Method PA-2 of 2.f.

3.13.3 WFT readings are required in lieu of dry when the system requires application of a tack coat. Refer to film thickness conversion table in 2.f. WFT equals DFT divided by percent solids by volume (when percent solids by volume is expressed as a decimal, i.e., 60 percent equals 0.60).

3.13.4 For underwater hull paint systems, record a minimum of 30 DFT readings per 1,000 square feet. Baseline DFT readings of underwater hull paint system shall be taken after final coat is applied and Quality Assurance spot readings in accordance with 2.f are completed.

3.13.5 Apply an additional coat of any single coat of a multiple coat system when that coat measures less than its specified DFT. Multiple coats shall be of contrasting color. DFT of each coat, including an additional coat if applied, shall not exceed the specified maximum thickness for each coat.

(V)***(G) or (I)***(G) "HOLIDAY INSPECTION" (See 4.4 for criteria)

3.14 ***Perform a visual holiday check on each coat of the system. Any holiday found shall be marked and touched up.***

3.14.1 Remove masking material and paint overspray after cleaning and painting operations are completed.

4. NOTES:

4.1 Thickness***es*** specified in Tables One through 18 are DFT and are minimum requirements, unless otherwise specified.

4.2 Total DFT encountered during removal may exceed specified table thickness'.

4.3 Total removal of ablative coating is not required in accordance with 631-5.2.3.3 of 2.b. The Work Item will specify the degree of removal.

4.4 The paragraphs referencing this note are considered an (I)(G) if the inspection/test is on a critical surface as listed in 3.4. If the inspection/test is not on a critical surface as listed in 3.4, then the paragraph is considered a (V)***(G)***.

4.5 The word "new" in "new and disturbed surfaces" refers to all material installed on the ship by the contractor regardless of source.

4.6 Structural requirements of Notes (23) and (24) will be addressed by the invoking Work Item.

4.7 QA Checklist Forms referred to in 3.4.10 are invoked by Advance Change Notice 7A to 2.b.

4.8 Preservation Process Instructions (PPIs) provide detailed instructions and procedures for specific ship preservation evolutions to include safety precautions, surface preparation, selection of appropriate coating systems, and third-party quality assurance check points. See new Section 12 of 2.b for details. Section 12 is provided in ACN 5A (Control Number N00024-00-FJB25).

NOTES OF TABLES ONE THROUGH 18

(1) The following items apply to MIL-DTL-24441 coatings:

a. MIL-DTL-24441 polyamide epoxy paints do not require thinning prior to application. If desired, the low temperature application properties can be improved by the addition of 10 percent by volume of one-to-one mixture of butyl alcohol and high flash naphtha or paint thinner TT-P-291. When sprayed without thinning at the recommended thickness, the paints have no tendency to sag. Apply a thinned mist coat of one to 2 mils WFT over existing paint.

b. When MIL-DTL-24441 polyamide epoxy paints are used at a work site having temperatures below 50 degrees Fahrenheit, it is essential that the stand-in period be accomplished in a warm area (70 degrees Fahrenheit) to ensure that the coating will cure.

c. Exterior side shell and underwater body painting at surface temperatures between 25 degrees Fahrenheit and 35 degrees Fahrenheit is not recommended, but can be approved by the SUPERVISOR provided the following conditions are met:

(1) Ambient temperature must be a minimum of 5 degrees Fahrenheit above the dew point.

(2) Hull surfaces must be absolutely dry and free of any signs of frost and ice.

(3) Drying time will be increased by four hours for a total of eight hours drying time per coat.

(4) No painting is allowed below surface temperature of 25 degrees Fahrenheit.

(5) Paint shall be stored at 70 degrees Fahrenheit for 24 hours before use.

d. Painting shall not be accomplished unless surface is dry and surface temperature is at least 5 degrees Fahrenheit above the dew point.

e. Approximate temperature of paint components in storage should be estimated in order to judge the amount of stand-in time to allow and the pot life that might be expected. The work site application temperature will greatly affect the time required for the paint to cure, and must be considered in estimating batch size, stand-in time, and cure time.

f. Paints should be sprayed using standard spray guns with applicable spray-pot pressures. The spray guns should be equipped with a middle-size (D) needle, nipple, and nozzle set-up. Both conventional and airless equipment are suitable for use with these paints.

g. Catalyzed paints should not be allowed to stand in the spray equipment for extended periods, especially in the sun (increasing temperature cures the paint more rapidly). The pot life of the paint mixture (Components A and B) is six hours at 73 degrees Fahrenheit.

h. Epoxy primers applied in the vicinity of abrasive blasting must be sheltered from airborne contaminants. Abrasive particles trapped in wet paint films are a source of premature blistering and film failure.

(2) Boottop - The boottopping is defined as the black area from minimum load waterline at which the ship is expected to operate to 12 inches above the maximum load waterline. The black paint is an anti-fouling paint conforming to MIL-PRF-24647 for a 5 to 10-year service life, or MIL-P-15931 for 2-year service life. Haze gray shall be carried to the black anti-fouling paint which marks the upper boottop paint.

(3) Ameron Amercoat 235 can be used for cold weather application below 40 degrees Fahrenheit. Apply at 5 mils DFT (minimum) per coat.

(4) Use International FCA 321 in lieu of FPA 327, or KHA414 in lieu of KHA062, for cold weather application below 50 degrees Fahrenheit.

(5) Use Hempadur ***4514U*** in lieu of 4515 for cold weather applications below 50 degrees Fahrenheit.

(6) A minimum of 24 hours drying time shall be allowed after last coat prior to undocking.

(7) To ensure a continuous primer base, areas adjacent to those being coated with proprietary primer and non-skid listed on QPL's for MIL-PRF-24667 shall be coated with the same primer and compatible topcoat.

(8) Intentionally Left Blank

(9) DOD-E-24607, chlorinated alkyd, may also be used. ***MIL-PRF-24596, Type I, Grade C, Classes 1 and 2, or*** DOD-E-24607 must be used if surface and ambient temperature are less than 50 degrees Fahrenheit.

(10) For MIL-PRF-23236, Types I, III, or IV shall be used in fuel/salt water ballast service. Qualified paint systems additionally designated Class One may be used with the qualified shop primer - this is generally a new construction issue. Qualified paint systems designated Class 2 are only for salt water ballast tanks - no exposure to fuels or other hydrocarbons is permitted.

(11) Coating to be applied in accordance with data sheet. The maximum coating thickness will be the minimum plus 150 percent of minimum, i.e., for 8 mils this will be 8 plus 12 (for maximum allowable of 20 mils).

(12) These systems may also be invoked for preservation of decks in spaces that are prone to wear and do not receive deck covering.

(13) Anchors below lower boottopping limit shall be painted in accordance with normal underwater hull anti-corrosion/anti-fouling system.

(14) For MCM, and MHC ships, use black walnut shells conforming to A-A-1722, Type II, or garnet MIL-A-21380 or garnet MIL-A-22262, for abrasive blast media.

(15) Anchor chain and detachable links shall be marked and color coated in accordance with NSTM Chapter 581 unless otherwise directed by the Work Item.

(16) Apply one mist coat (1-2 mils) of Ameron PSX 700 after blast and prior to remaining coats where invoking Work Item requires anchor chain inspections prior to preservation.

(17) Colors shown in Tables 631-8-13 and 631-8-14 ***of 2.b***, shall be specified by TYCOM or ship's Commanding Officer ***in accordance with*** Chapter 631-8.23.4.

(18) Restore each compartment marking in accordance with 2.h and 2.i.

(19) MIL-PRF-24667 non-skid systems shall be applied as complete systems (primer, intermediate coat when MIL-PRF-24667, Type III, coatings are invoked, non-skid, and color topping) from the same manufacturer except for the color topping. When a manufacturer does not have approved color topping, use another compatible manufacturer color topping. MIL-PRF-24667, Type I, when required, shall be specified in the invoking Work Item. Boundaries of areas receiving non-skid not specified by specific ship's drawings shall be in accordance with 2.c.

(20) Prior to accomplishing painting of wooden underwater hulls, allow the hull to dry to a moisture content of 15 percent. Readings shall be taken with an electronic moisture meter, Sovereigh Moisture Master or equal. Cover grounding plates and zincs prior to painting.

(21) Blasted surface metal must be degreased following walnut shell blasting. Even traces of residual oil will degrade coating adhesion. Optimum method is to wipe down the blasted surface with a 1:1 solvent mixture by volume of methyl ethyl ketone and mineral spirits. Appropriate safety precautions for working with flammable solvents must be enforced. Alternate procedure is a vigorous soap and water wash followed by pressurized fresh water rinse. Do not use a detergent and fresh water washdown when using aluminum oxide as an abrasive blast medium.

(22) Blasted surface must be cleaned to near white surface finish, ***NACE 2/***SSPC-SP-10, or NACE 5/SSPC-SP-12 condition WJ-2L.

(23) For non-edge retentive coatings, radiusing of edges is recommended to ensure maximum service life. If edges are not radiused, the service life could be substantially reduced.

(24) Deburring and grinding of weld spatter is recommended to ensure maximum service life. If weld spatter is not removed, the service life of the coating could be substantially reduced.

(25) Power impact tool cleaning using power-driven needle guns, chipping or scaling hammers, rotary scalers, single or multiple-piston scalers, or other similar impact cleaning tools shall not be utilized in the cleaning methods.

(26) For Tables 4 through 6, maintain the relative humidity in the tank or void space at a maximum of 50 percent from the start of abrasive blasting to cure of the topcoat.

(27) Finish coats for boats and craft shall be as specified in Paragraph 631-9.3.4 through 631-9.3.5 of 2.b unless otherwise specified in the invoking Work Item.

(28) Thermal insulation shall be soap and water cleaned and hand sanded.

(29) Three coats of MIL-DTL-24441, Type III, at 3-4 mils per coat can be substituted for 2 coats of MIL-DTL-24441, Type IV, at 4-6 mils per coat, for total system DFT of 8-12 mils.

(30) Grit blasting to near white metal is the preferred method of surface preparation. Only where grit blasting is not possible should power tool cleaning be used. Power tool cleaning should not be used for well deck areas frequently exposed to LCAC exhaust.

(31) A low pressure (3,000 to 5,000 psi) fresh water washdown of the well deck area shall be performed before either grit blasting or power tool cleaning to remove dirt, oil, grease, salts, and loosely adherent coatings.

(32) Upon completion of surface preparation, Ph measurements must be taken. The Ph must be in the range of 6.5 to 7.5. If it is not, the surface must be washed with fresh water until the required Ph is obtained.

(33) Runs, sags, and drips may appear in the coating due to its solvent-free nature and application properties. In the normal application of this product, the appearance of runs, sags, and drips is only superficial and is not detrimental to the coating system. In these cases, no action shall be taken. In cases where the conditions are determined to be detrimental (coating in excess of 50 mils DFT) to the effectiveness of the coating system, immediate action shall be taken. If the wet run, sag, or drip occurs on a dry surface, brush out the run, sag, or drip and reapply the prime coat directly over the brushed out area. If the run, sag, or drip has dried, then the affected area shall be scraped or mechanically removed and the prime coat shall be reapplied.

(34) These systems may also be invoked for preservation of well deck bulkheads and decks.

(35) Fill bearing void with Termalene 2 or equal in accordance with CID A-A-50433 after each bearing void installation. Bearing void painting is to be performed only when the shaft is removed.

(36) Install vermiculite based anti-sweat treatment in accordance with Paragraph 631-7.8.3 and 631-7.8.4 of 2.b.

(37) Total ***DFT*** specified in Table 4 for potable water tanks shall not be exceeded except in isolated areas adjacent to shapes and stiffeners. In no case shall the maximum ***DFT*** be exceeded by two mils. The isolated areas shall be less than two percent of the total area.

a. For touch-up or overcoating intact aged paint in good condition, the same requirements for each coat apply, and the total film thickness maximum requirement may be corrected to allow for thickness of

underlying aged paint. Requirement is to avoid excess thickness in individual coats. High ***DFT*** resulting from the application of extra coats of paint is not considered to be a problem below 35 mils total ***DFT***.

(38) Formula 124, DOD-E-24607 tinted with DOD-C-22325 may be used when none of the approved colors are available. However, this should be a last resort.

(39) Apply heat-resistant paint (TT-P-28) to surfaces, whether insulated or not, where operating temperature is over 400 degrees Fahrenheit. Heat-resisting paint should also be applied to normally uninsulated hot metal surfaces such as boiler drum gages and pressure gage piping. Heat resisting paint is highly flammable during application and should not be applied where surface operating temperatures exceed 85 degrees Fahrenheit. Proper application is two thin coats on well-prepared, dry metal surfaces.

(40) Avoid excessive power wire brushing that results in a polished surface.

(41) Apply three coats of a vapor barrier coating compound, MIL-PRF-19565, in contrasting colors (white-orange-white), to insulation within laundries, sculleries, galleys, drying rooms, and to insulation on the warm side of refrigerated stores spaces.

(42) High temperature areas such as BLISS caps, air eductors, and exhaust stacks are addressed under "exterior exhaust piping" in Table 14.

(43) In lieu of white, use Light Gray, Color No. 26373 (Low Solar Absorption only). In lieu of black, use Ocean Gray, Color No. 26173 (Low Solar Absorption only).

(44) The prime coat of Euronavy ES301K must be of an approved primer color in accordance with 2.d.

(45) PCMS tile on the bow flares shall be painted with the same topcoat as the freeboard.

STEEL SURFACES TABLE 1	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E KEEL TO BOTTOM OF BOOTTOP	F BOOTTOP	G DRAFT MARKS
LOCATION: UNDERWATER HULL (KEEL TO BOOTTOP, INCLUDING PROPULSION SHAFT OUTBOARD BEARING VOIDS SEE NOTE (35) 2 YEARS OR LESS SERVICE LIFE	1	NEAR WHITE METAL BLAST, ***NACE 2/***SSPC-SP-10 -- OR -- ***WATERJETTING TO*** NACE 5/SSPC-SP-12 CONDITION WJ-2***L***	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)		ONE COAT F-154, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)	2 COATS F-121A, 2 MILS/COAT, 4 MILS MIN TOTAL MIL-P-15931 MIN DRYING TIME OF 24 HRS SHALL BE ALLOWED BETWEEN LAST COAT & UNDOCKING OF SHIP SEE NOTE (27)	2 COATS F-129A, 2 MILS/COAT, 4 MILS MIN TOTAL MIL-P-15931 MIN DRYING TIME OF 24 HRS SHALL BE ALLOWED BETWEEN LAST COAT & UNDOCKING OF SHIP SEE NOTE (2)	ONE COAT MIL-PRF-24635 LT GRAY, COLOR NO. 26373 ***(LOW SOLAR ABSORPTION ONLY)*** TO BOOTTOPPING & BELOW, 3 MILS ONE COAT COLOR NO 26173 (FED STD 595) MIL-PRF-24635 OCEAN GRAY ***(LOW SOLAR ABSORPTION ONLY)*** ABOVE BOOTTOPPING, 3 MILS
	2	SAME AS LINE ONE	ONE COAT AMERCOAT 385, 4-6 MILS	ONE COAT AMERCOAT 385, 4-6 MILS		SAME AS LINE ONE	SAME AS LINE ONE	SAME AS LINE ONE
	3	SAME AS LINE ONE	ONE COAT INTERNATIONAL FPL 274/FPA 327 RED, 5 MILS SEE NOTE (4)	ONE COAT INTERNATIONAL FPJ 034/FPA 327 GRAY, 5 MILS SEE NOTE (4)		SAME AS LINE ONE	SAME AS LINE ONE	SAME AS LINE ONE
	4	***SAME AS LINE ONE***	***ONE COAT INTERNATIONAL KHA303/KHA062, 5 MILS*** ***SEE NOTE (4)***	***ONE COAT INTERNATIONAL KHA302/KHA062, 5 MILS*** ***SEE NOTE (4)***		***SAME AS LINE ONE***	***SAME AS LINE ONE***	***SAME AS LINE ONE***
	5	SAME AS LINE ONE	ONE COAT JOTUN 65-R-10, 4-6 MILS	ONE COAT JOTUN 65-F-15, 4-6 MILS		SAME AS LINE ONE	SAME AS LINE ONE	SAME AS LINE ONE
	6	SAME AS LINE ONE	ONE COAT AMERON AMERCOAT 235 RED, 5 MILS SEE NOTE (3)	ONE COAT AMERON AMERCOAT 235 GRAY , 5 MILS SEE NOTE (3)		SAME AS LINE ONE	SAME AS LINE ONE	SAME AS LINE ONE
	7	***SAME AS LINE ONE***	***ONE COAT AMERON AMERCOAT 230, RED, 5 MILS*** ***SEE NOTE (3)***	***ONE COAT AMERON AMERCOAT 230, GRAY, 5 MILS*** ***SEE NOTE (3)***		***SAME AS LINE ONE***	***SAME AS LINE ONE***	***SAME AS LINE ONE***

STEEL SURFACES TABLE 1 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E KEEL TO BOTTOM OF BOOTTOP	F BOOTTOP	G DRAFT MARKS
LOCATION: UNDERWATER HULL (KEEL TO BOOTTOP, INCLUDING PROPULSION SHAFT OUTBOARD BEARING VOIDS 5 YEARS SERVICE LIFE	***8***	SAME AS LINE ONE	ONE COAT INTERNATIONAL FPL 274/FPA 327, RED, 5 MILS | SEE NOTE (4)	ONE COAT INTERNATIONAL FPJ 034/FPA 327, GRAY, 5 MILS | SEE NOTE (4)		ONE COAT BRA 642 BLACK, ONE COAT BRA 640 RED (MIL-PRF-24647), 5 MILS/COAT SEE NOTES (2) & (6)	2 COATS BRA 642 BLACK (MIL-PRF-24647), 5 MILS/COAT	SAME AS LINE ONE
	9	***SAME AS LINE ONE***	***ONE COAT INTERNATIONAL KHA303/KHA062, 5 MILS*** ***SEE NOTE (4)***	***ONE COAT INTERNATIONAL KHA302/KHA062, 5 MILS*** ***SEE NOTE (4)***		***ONE COAT BRA 642 BLACK, ONE COAT BRA 640 RED (MIL-PRF-24647), 5 MILS/COAT*** ***SEE NOTES (2) & (6)***	***ONE COAT BRA 642 BLACK (MIL-PRF-24647), 5 MILS/COAT***	***SAME AS LINE ONE***
	10	SAME AS LINE ONE	ONE COAT AMERON AMERCOAT 235, RED, 5 MILS | SEE NOTE (3)	ONE COAT AMERON AMERCOAT 235, GRAY, 5 MILS | SEE NOTE (3)		ONE COAT ***AMERON*** ABC 3 BLACK, ONE COAT ***AMERON*** ABC 3 RED (MIL-PRF-24647) 5 MILS/COAT SEE NOTES (2) & (6)	2 COATS ***AMERON*** ABC 3 BLACK (MIL-PRF-24647), 5 MILS/COAT SEE NOTE (6)	SAME AS LINE ONE
	11	***SAME AS LINE ONE***	***ONE COAT AMERON AMERCOAT 230, 5 MILS*** ***SEE NOTE (3)***	***ONE COAT AMERON AMERCOAT 230, 5 MILS*** ***SEE NOTE (3)***		***ONE COAT AMERON ABC 3 BLACK, ONE COAT AMERON ABC 3 RED (MIL-PRF-24647), 5 MILS/COAT*** ***SEE NOTES (2) & (6)***	***2 COATS AMERON ABC 3 BLACK (MIL-PRF-24647), 5 MILS/COAT*** ***SEE NOTE (6)***	***SAME AS LINE ONE***
	12	SAME AS LINE ONE	ONE COAT HEMPADUR ***45152-50630*** RED, 5 MILS SEE NOTE (5)	ONE COAT HEMPADUR ***45152-11480*** GRAY, 5 MILS SEE NOTE (5)		ONE COAT OLYMPIC ***76600-19990*** BLACK (MIL-PRF-24647) -- & -- ONE COAT OLYMPIC ***76600-51110*** RED (MIL-PRF-24647), 5 MILS/COAT SEE NOTES (2) & (6)	2 COATS OLYMPIC ***76600-19990*** BLACK (MIL-PRF-24647), 5 MILS/COAT SEE NOTE (6)	SAME AS LINE ONE

STEEL SURFACES TABLE 1 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E KEEL TO BOTTOM OF BOOTTOP	F BOOTTOP	G DRAFT MARKS
LOCATION: UNDERWATER HULL (KEEL TO BOOTTOP, INCLUDING PROPULSION SHAFT OUTBOARD BEARING VOIDS 7 YEARS SERVICE LIFE	***13***	SAME AS LINE ONE	ONE COAT INTERNATIONAL FPL 274/FPA 327, RED, 5 MILS | SEE NOTE (4)	ONE COAT INTERNATIONAL FPJ 034/FPA 327, GRAY, 5 MILS | SEE NOTE (4)		ONE COAT BRA 642 BLACK, ONE COAT BRA 640 RED (MIL-PRF-24647), 6 MILS/COAT SEE NOTES (2) & (6)	2 COATS BRA 642 BLACK (MIL-PRF-24647), 6 MILS/COAT SEE NOTE (6)	SAME AS LINE ONE
	14	***SAME AS LINE ONE***	***ONE COAT INTERNATIONAL KHA303/KHA062, 5 MILS*** ***SEE NOTE (4)***	***ONE COAT INTERNATIONAL KHA302/KHA062, 5 MILS*** ***SEE NOTE (4)***		***ONE COAT BRA 642 BLACK, ONE COAT BRA 640 RED (MIL-PRF-24647), 6 MILS/COAT*** ***SEE NOTES (2) & (6)***	***2 COATS BRA 642 BLACK (MIL-PRF-24647), 6 MILS/COAT***	***SAME AS LINE ONE***
	15	SAME AS LINE ONE	ONE COAT AMERON AMERCOAT 235, RED, 5 MILS | SEE NOTE (3)	ONE COAT AMERON AMERCOAT 235, GRAY, 5 MILS | SEE NOTE (3)		ONE COAT ***AMERON*** ABC 3 BLACK, ONE COAT ***AMERON*** ABC 3 RED (MIL-PRF-24647), 6 MILS/COAT SEE NOTES (2) & (6)	2 COATS ***AMERON*** ABC 3 BLACK (MIL-PRF-24647), 6 MILS/COAT SEE NOTE (6)	SAME AS LINE ONE
	16	***SAME AS LINE ONE***	***ONE COAT AMERON AMERCOAT 230, 5 MILS*** ***SEE NOTE (3)***	***ONE COAT AMERON AMERCOAT 230, 5 MILS*** ***SEE NOTE (3)***		***ONE COAT AMERON ABC 3 BLACK, ONE COAT AMERON ABC 3 RED (MIL-PRF-24647), 6 MILS/COAT*** ***SEE NOTES (2) & (6)***	***2 COATS AMERON ABC 3 BLACK (MIL-PRF-24647), 6 MILS/COAT***	***SAME AS LINE ONE***
	17	SAME AS LINE ONE	ONE COAT HEMPADUR ***45152-50630,*** RED, 5 MILS SEE NOTE (5)	ONE COAT HEMPADUR ***45152-11480,*** GRAY, 5 MILS SEE NOTE (5)		ONE COAT OLYMPIC ***76600-19990,*** BLACK (MIL-PRF-24647) -- & -- ONE COAT OLYMPIC ***76600-51110,*** RED (MIL-PRF-24647), 6 MILS/COAT SEE NOTES (2) & (6)	2 COATS OLYMPIC ***76600-19990,*** BLACK (MIL-PRF-24647), 6 MILS/COAT SEE NOTE (6)	SAME AS LINE ONE

STEEL SURFACES TABLE 1 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E KEEL TO BOTTOM OF BOOTTOP	F BOOTTOP	G DRAFT MARKS
LOCATION: UNDERWATER HULL (KEEL TO BOOTTOP, INCLUDING PROPULSION SHAFT OUTBOARD BEARING VOIDS) 10 TO 12 YEARS SERVICE LIFE	***18***	SAME AS LINE ONE	ONE COAT INTERNATIONAL FPL 274/FPA 327, RED, 5 MILS SEE NOTE (4)	ONE COAT INTERNATIONAL FPJ 034/FPA 327, GRAY, 5 MILS SEE NOTE (4)		ONE COAT BRA 640 RED, ONE COAT BRA 642 BLACK, ONE COAT BRA 640 RED (MIL-PRF-24647), 6 MILS/COAT SEE NOTES (2) & (6)	3 COATS BRA 642 BLACK (MIL-PRF-24647), ***6*** MILS/COAT SEE NOTE (6)	SAME AS LINE ONE
	19	***SAME AS LINE ONE***	***ONE COAT INTERNATIONAL KHA303/KHA062, 5 MILS*** ***SEE NOTE (4)***	***ONE COAT INTERNATIONAL KHA302/KHA062, 5 MILS*** ***SEE NOTE (4)***		***ONE COAT BRA 640 RED, ONE COAT BRA 642 BLACK, ONE COAT BRA 640 RED (MIL-PRF-24647), 6 MILS/COAT*** ***SEE NOTES (2) & (6)***	***3 COATS BRA 642 BLACK (MIL-PRF-24647), 6 MILS/COAT***	***SAME AS LINE ONE***
	20	SAME AS LINE ONE	ONE COAT AMERON AMERCOAT 235, RED, 5 MILS SEE NOTE (3)	ONE COAT AMERON AMERCOAT 235, GRAY, 5 MILS SEE NOTE (3)		ONE COAT ***AMERON*** ABC 3 RED, ONE COAT ***AMERON*** ABC 3 BLACK, ONE COAT ***AMERON*** ABC 3 RED (MIL-PRF-24647), ***6*** MILS/COAT SEE NOTES (2) & (6)	3 COATS ***AMERON*** ABC 3 BLACK (MIL-PRF-24647), ***6*** MILS/COAT SEE NOTE (6)	SAME AS LINE ONE
	21	***SAME AS LINE ONE***	***ONE COAT AMERON AMERCOAT 230, 5 MILS*** ***SEE NOTE (3)***	***ONE COAT AMERON AMERCOAT 230, 5 MILS*** ***SEE NOTE (3)***		***ONE COAT AMERON ABC 3 RED, ONE COAT AMERON ABC 3 BLACK, ONE COAT AMERON ABC 3 RED (MIL-PRF-24647), 6 MILS/COAT*** ***SEE NOTES (2) & (6)***	***3 COATS AMERON ABC 3 BLACK (MIL-PRF-24647), 6 MILS/COAT***	***SAME AS LINE ONE***
	22	SAME AS LINE ONE	ONE COAT HEMPADUR ***45152-50630,*** RED, 5 MILS SEE NOTE (5)	ONE COAT HEMPADUR ***45152-11480,*** GRAY, 5 MILS SEE NOTE (5)		ONE COAT OLYMPIC ***76600-51110,*** RED (MIL-PRF-24647) -- & -- ONE COAT OLYMPIC ***76600-19990,*** BLACK (MIL-PRF-24647) -- & -- ONE COAT OLYMPIC ***76600-51110,*** RED (MIL-PRF-24647), ***6*** MILS/COAT SEE NOTES (2) & (6)	3 COATS OLYMPIC ***76600-19990,*** BLACK (MIL-PRF-24647), 6 MILS/COAT SEE NOTE (6)	SAME AS LINE ONE

STEEL SURFACES TABLE 1 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E KEEL TO BOTTOM OF BOOTTOP	F BOOTTOP	G DRAFT MARKS
LOCATION: UNDERWATER HULL (STRUTS, RUDDERS, & OTHER CAVITATION PRONE AREAS	***23***	SAME AS LINE ONE	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)	ONE COAT F154, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)	4 COATS 3M CO. NO. EC-2216, ONE COAT, 6 MILS WFT/COAT (4.2 MILS DFT/COAT) 3 COATS, 8 MILS WFT/COAT (5-6 MILS DFT/COAT)	ANTI-FOULING PAINT SAME AS SURROUNDING HULL		
	24	SAME AS LINE ONE	ONE COAT AMERON AMERCOAT 235, 3-4 MILS | SEE NOTE (3)	ONE COAT AMERON AMERCOAT 235, 5 MILS | SEE NOTE (3)	SAME AS LINE ***23***	SAME AS LINE ***10***		
	25	***SAME AS LINE ONE***	***ONE COAT AMERON AMERCOAT 230, 3-4 MILS*** ***SEE NOTE (3)***	***ONE COAT AMERON AMERCOAT 230, 5 MILS*** ***SEE NOTE (3)***	***SAME AS LINE 23***	***SAME AS LINE 10***		
	26	SAME AS LINE ONE	ONE COAT INTERNATIONAL FPL 274/FPA 327, 3-4 MILS | SEE NOTE (4)	ONE COAT INTERNATIONAL FPJ 034/FPA 327 5 MILS | SEE NOTE (4)	SAME AS LINE ***23***	SAME AS LINE ***8***		
	27	***SAME AS LINE ONE***	***ONE COAT INTERNATIONAL KHA303/KHA062, 3-4 MILS*** ***SEE NOTE (4)***	***ONE COAT INTERNATIONAL KHA302/KHA062, 5 MILS*** ***SEE NOTE (4)***	***SAME AS LINE 23***	***SAME AS LINE 8***		
	28	SAME AS LINE ONE	ONE COAT HEMPADUR ***45152-50630*** RED, 3-4 MILS SEE NOTE (5)	SAME AS LINE ***12***	SAME AS LINE ***23***	SAME AS LINE ***12***		

STEEL SURFACES TABLE 2	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E HORIZONTAL SURFACES DECKS & FITTINGS	F MASTS & STACKS EXPOSED TO GASES ***SEE NOTE (42)***	G VERTICAL SURFACES
LOCATION: EXTERIOR SURFACES ABOVE BOOTTOP WITH EXCEPTION OF FLIGHT DECK & VERTICAL REPLENISHMENT, WALK AREAS, AND WELL DECK OVERHEAD AREAS SEE NOTE (2)	1	NEAR WHITE METAL BLAST ***NACE 2/***SSPC-SP-10 -- OR -- ***WATERJETTING TO*** NACE 5/SSPC-SP-12 CONDITION WJ-2L	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS -- OR -- ONE COAT MIL-PRF-24647 ANTI-CORROSIVE 5 MILS SEE NOTES (1) & (29)	ONE ***STRIPE COAT AND ONE FULL*** COAT F-154, MIL-DTL-24441 TYPE IV, 4-6 MILS -- OR -- ONE ***STRIPE COAT AND ONE FULL*** COAT MIL-PRF-24647 ANTI-CORROSIVE 5 MILS SEE NOTES (1) & (29)		ONE COAT DECK GRAY NO.26008 (FED STD 595), MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY), 3 MILS TOTAL	ONE COAT HAZE GRAY NO. 26270 (FED STD 595), MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY) -- OR -- MIL-E-24763 TYPE II, CLASS 2, 3 MILS TOTAL -- OR -- INTERNATIONAL INTERLAC 1, PRODUCT #45587A HAZE GRAY (LOW SOLAR ABSORPTION ANTI-STAIN) -- OR -- NILES CHEMICAL PAINT CO. ***PRODUCT N-7229C, HAZE GRAY*** (LOW SOLAR ABSORPTION ***ANTI-STAIN***) ***-- OR --*** ***AMERON AMERCOAT 7229C, HAZE GRAY (LOW SOLAR ABSORPTION ANTI-STAIN)***	ONE COAT HAZE GRAY NO. 26270 (FED STD 595), MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY) -- OR -- MIL-E-24763 TYPE II, CLASS 2, 3 MILS TOTAL PAINT DESIGNATIONS AND MARKINGS MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY) -- OR -- INTERNATIONAL INTERLAC 1, PRODUCT #45587A HAZE GRAY (LOW SOLAR ABSORPTION ANTI-STAIN) -- OR -- NILES CHEMICAL PAINT CO. ***PRODUCT N-7229C, HAZE GRAY*** (LOW SOLAR ABSORPTION ***ANTI-STAIN***) ***-- OR --*** ***AMERON AMERCOAT 7229C, HAZE GRAY (LOW SOLAR ABSORPTION ANTI-STAIN)*** ***SEE NOTE (43)***
	2	NEAR WHITE METAL BLAST, ***NACE 2/***SSPC-SP-10	ONE COAT INORGANIC ZINC SILICATE, 2-3 MILS, DOD-***PRF***-24648 -- OR -- CHAP 631, PARA 631-8.23.2.1	ONE MIST COAT F-150, 1-2 MILS WFT, MIL-DTL-24441 -- OR -- ONE COAT MIL-PRF-24647 ANTI-CORROSIVE, 1-2 MILS WFT SEE NOTE (1)	ONE ***STRIPE COAT AND ONE FULL*** COAT F-150 OR F-151, MIL-DTL-24441, 2-4 MILS WHEN FIRST COAT IS STILL TACKY -- OR -- ONE ***STRIPE COAT AND ONE FULL*** COAT MIL-PRF-24647 ANTI-CORROSIVE, 5 MILS SEE NOTE (1)	SAME AS LINE ONE APPLY WHILE EPOXY IS TACKY IN FINAL STAGE	SAME AS LINE ONE APPLY WHILE EPOXY IS TACKY IN FINAL STAGE	SAME AS LINE ONE APPLY WHILE EPOXY IS TACKY IN FINAL STAGE

STEEL SURFACES TABLE 2 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C PRIMER	D	E HORIZONTAL SURFACES DECKS & FITTINGS	F MASTS & STACKS EXPOSED TO GASES ***SEE NOTE (42)***	G VERTICAL SURFACES
LOCATION: HANGAR DECKS, FLIGHT DECKS & VERTICAL REPLENISHMENT DECK AREAS	3	NEAR WHILE METAL BLAST, ***NACE 2/***SSPC-SP-10 -- OR -- ***WATERJETTING TO*** NACE 5/SSPC-SP-12 CONDITION WJ-2L	STRIPE COAT OF PROPRIETARY NON-SKID PRIMER LISTED ON THE QPL FOR MIL-PRF-24667 SEE NOTE (7)	PROPRIETARY NON-SKID PRIMER LISTED ON THE QPL FOR MIL-PRF-24667 SEE NOTE (7)		ONE COAT DARK GRAY, MIL-PRF-24667 TYPE I, COMP G		
	4	SAME AS LINE 3	PROPRIETARY NON-SKID PRIMER LISTED ON THE QPL FOR MIL-PRF-24667 SEE NOTE (7)	STRIPE COAT OF PROPRIETARY NON-SKID PRIMER LISTED ON THE QPL FOR MIL-PRF-24667 SEE NOTE (7)	PROPRIETARY NON-SKID PRIMER LISTED ON THE QPL FOR MIL-PRF-24667 SEE NOTE (7)	SAME AS LINE 3		

STEEL SURFACES TABLE 2 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C PRIMER	D	E HORIZONTAL SURFACES DECKS & FITTINGS	F MASTS & STACKS EXPOSED TO GASES ***SEE NOTE (42)***	G VERTICAL SURFACES
LOCATION: ***LANDING AREAS*** (CV'S & CVN'S ONLY)	5	SAME AS LINE 3	SAME AS LINE 3	SAME AS LINE 3		ONE COAT DARK GRAY, MIL-PRF-24667 TYPE I, COMP L SEE NOTE (19)		
WALK AREAS (ALL DECK AREAS OTHER THAN HANGAR, FLIGHT, AND VERTREP)	6	SAME AS LINE 3	SAME AS LINE 3	SAME AS LINE 3		ONE COAT MIL-PRF-24667 TYPE I, II, OR III, COMP G -- OR -- ONE COAT MIL-PRF-24667 TYPE IV SEE NOTE (19)		
	7	SAME AS LINE ***3***	SAME AS LINE 4	SAME AS LINE 4	SAME AS LINE 4	SAME AS LINE 6		
EXTERIOR STEEL SURFACES	8	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11 SEE NOTE (40)	SAME AS LINE ONE	SAME AS LINE ONE		SAME AS LINE ONE	SAME AS LINE ONE	SAME AS LINE ONE

STEEL SURFACES TABLE 2 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E HORIZONTAL SURFACES DECKS & FITTINGS	F MASTS & STACKS EXPOSED TO GASES ***SEE NOTE (42)***	G VERTICAL SURFACES
LOCATION: WELL DECK OVERHEADS, BOTH EXPOSED AND NON-EXPOSED TO LCAC EXHAUST SEE NOTES (30) & (34)	9	NEAR WHITE METAL BLAST, ***NACE 2***/SSPC-SP-10 SEE NOTE (31)	ONE COAT CREAM SIGMA COATINGS EDGEGUARD PRIMER (PDS NO.5427), 6-8 MILS DFT SEE NOTE (33)	ONE STRIPE COAT ***WD*** GRAY SIGMA COATINGS EDGEGUARD TOPCOAT (PDS NO.5428), 8-12 MILS DFT SEE NOTE (33)	ONE COAT OFF-WHITE SIGMA COATINGS EDGEGUARD TOPCOAT (PDS NO. 5428), 10-***16*** MILS DFT SEE NOTE (33)			
	10	SAME AS LINE 9	ONE COAT ***BUFF*** SHERWIN WILLIAMS PRIMER (B622H220/B62V220), 6-8 MILS DFT SEE NOTE (33)	ONE STRIPE COAT GRAY SHERWIN WILLIAMS NOVA-PLATE TOPCOAT (B62***A***220/B62V220), 8-12 MILS DFT SEE NOTE (33)	ONE COAT ***WHITE*** SHERWIN WILLIAMS NOVA-PLATE UHS TOPCOAT (B62***W***220/B62V220), 10-***16*** MILS DFT SEE NOTE (33)			
VARIOUS	11	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11 SEE NOTE (40)	ONE COAT F-150, MIL-DTL-24441, TYPE IV, 4-6 MILS SEE NOTE (1)					

STEEL SURFACES TABLE 3	LINE	A SURFACE PREPARATION	B PRIMER	C WELDING BAYS & LIGHT TRAPS	D BULKHEADS & OVERHEADS	E DECKS	F THERMAL INSULATION	G MARKINGS
LOCATION: INTERIOR COMPARTMENTS COLORS TO BE SPECIFIED BY TYCOM OR SHIP'S COMMANDING OFFICER PER CHAP 631-8.23.4	1	HAND TOOL CLEANING, SSPC-SP-2 SEE NOTES (17), (28) & (40)	2 COATS FORMULA 84, TT-P-645, ALKYD ZINC MOLYBDATE, 3 MILS DFT -- OR -- ONE COAT F-150, MIL-DTL-24441, 2-4 MILS DFT APPLY TOPCOAT WHILE FORMULA 150 IS STILL TACKY. IF 150 IS HARD, USA A TACK COAT PRIOR TO TOPCOAT -- OR -- MIL-PRF-23236, 3-5 MILS DFT SEE NOTE (1)	BHDS, OVHDS, ONE COAT NO. 37038 (FED STD 595), MIL-PRF-24635, 3 MILS TOTAL DECKS ONE COAT NO. 27038 (FED STD 595), MIL-PRF-24635, 3 MILS TOTAL	2 COATS MIL-PRF-24596, WATER-BASED INTERIOR LATEX, 5 MILS MAX DFT -- OR -- 2 COATS NAVY FORMULA 25A, WATER-BASED FIRE RETARDANT COATING, 5 MILS MAX DFT SEE NOTE (9)	ONE COAT NO. 26008 (FED STD 595) MIL-PRF-24635, 3 MILS TOTAL (TO DECKS NOT RECEIVING COVERING)	HULL, VENTILATION & PIPING INSULATION 2 COATS SAME AS BHDS & OVHDS SEE NOTE (28)	FOR COMP'T PIPING VENTILATION SEE NOTE (18)
	2	SAME AS LINE ONE	2 COATS FORMULA 84, TT-P-645, ALKYD ZINC MOLYBDATE, 3 MILS DFT -- OR -- ONE COAT F-150, MIL-DTL-24441, 2-4 MILS DFT APPLY TOPCOAT WHILE FORMULA 150 IS STILL TACKY. IF 150 IS HARD, USA A TACK COAT PRIOR TO TOPCOAT -- OR -- MIL-PRF-23236, 3-5 MILS DFT SEE NOTE***S*** (1) ***& (38)***	SAME AS LINE ONE	2 COATS DOD-E-24607, 3 MILS TOTAL	SAME AS LINE ONE	SAME AS LINE ONE	SAME AS LINE ONE
INTERIOR COMPARTMENTS (OVERCOAT)	3	HAND TOOL CLEANING, SSPC-SP-2 SEE NOTE (28) & (40)	SAME AS LINE ONE FOR BARE METAL AREAS	SAME AS LINE ONE EXCEPT ONE COAT	SAME AS LINE ONE EXCEPT ONE COAT		SAME AS LINE ONE EXCEPT ONE COAT	SAME AS LINE ONE EXCEPT ONE COAT

STEEL SURFACES TABLE 3 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C WELDING BAYS & LIGHT TRAPS	D BULKHEADS & OVERHEADS	E DECKS	F THERMAL INSULATION	G MARKINGS
LOCATION: WET SPACES (WASH ROOMS, WATER CLOSETS, SHOWER STALLS, GALLEYS, SCULLERIES & STOREROOMS WHERE HEAVY CONDENSATION IS COMMON)	4	POWER TOOL CLEANING ***TO BARE METAL***, SSPC-SP-11 SEE NOTES (28), (29) & (40)	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS APPLY TOPCOAT WHILE FORMULA 150 IS STILL TACKY. IF 150 IS HARD, USE A TACK COAT PRIOR TO TOPCOAT. SEE NOTES (1) & (29)		ONE COAT F-152, MIL-DTL-24441 TYPE IV, 4-6 MILS/COAT SEE NOTES (1) & (29)	ONE COATS F-151, MIL-DTL-24441 TYPE IV, 4-6 MILS TOTAL (TO DECKS NOT RECEIVING COVERING) SEE NOTES (1) & (29)	SAME AS LINE ONE	SAME AS LINE ONE
	5	SAME AS LINE 4	MIL-PRF-23236		MIL-PRF-23236	MIL-PRF-23236	SAME AS LINE ONE	SAME AS LINE ONE
	6	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11	ONE COAT EURONAVY ES301K, 4-6 MILS WFT ***SEE NOTE (44)***		***SHERWIN WILLIAMD DURA-PLATE UHS***, ONE STRIPE COAT, 4-6 MILS WFT AND ONE FINAL COAT 4-6 MILS WFT TOTAL SYSTEM 12 MILS MAXIMUM	EURONAVY ES301S, ONE STRIPE COAT, 4-6 MILS WFT AND ONE FINAL COAT 4-6 MILS WFT TOTAL SYSTEM 12 MILS MAXIMUM		
FIRE ZONE BULKHEAD	7	SAME AS LINE ONE	SAME AS LINE ONE		2 COATS THERMAL INSULATING (INTUMESCENT) PAINT, MIL-PRF-46081 -- OR -- MIL-PRF-24596 TYPE II, 5 MILS/COAT			
INTERIOR STEEL SURFACES	8	NEAR WHITE METAL BLAST, ***NACE 2/***SSPC-SP-10 SEE NOTE (29)	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)		ONE COAT F-156 OR F-152, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)	SAME AS COLUMN D/BULKHEAD -- OR -- NOT APPLICABLE (WHERE DECK PLATES EXIST)	SAME AS COLUMN D/BULKHEAD	SEE NOTE (18)

STEEL SURFACES TABLE 3 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C WELDING BAYS & LIGHT TRAPS	D BULKHEADS & OVERHEADS	E DECKS	F THERMAL INSULATION	G MARKINGS
LOCATION: INTERIOR COMPARTMENTS COLORS TO BE SPECIFIED BY TYCOM OR SHIP'S COMMANDING OFFICER PER CHAP 631-8.23.4	9	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11 SEE NOTES (17), (28) & (40)	2 COATS FORMULA 84, TT-P-645, ALKYD ZINC MOLYBDATE, 3 MILS DFT -- OR -- ONE COAT F-150, MIL-DTL-24441, 2-4 MILS DFT APPLY TOPCOAT WHILE FORMULA 150 IS STILL TACKY. IF 150 IS HARD, USE A TACK COAT PRIOR TO TOPCOAT. ***-- OR --*** ***ONE COAT MIL-PRF-23236, 3-5 MILS DFT*** SEE NOTE (1)	BHDS, OVHDS, ONE COAT NO.37038 (FED STD 595), MIL-PRF-24635, 3 MILS TOTAL DECKS ONE COAT NO. 27038 (FED STD 595), MIL-PRF-24635, 3 MILS TOTAL	2 COATS MIL-PRF-24596, WATER-BASED INTERIOR LATEX, 5 MILS MAX DFT -- OR -- 2 COATS NAVY FORMULA 25A, WATER-BASED FIRE RETARDANT COATING, 5 MILS MAX DFT SEE NOTE (9)	ONE COAT NO. 26008 (FED STD 595) MIL-PRF-24635, 3 MILS TOTAL (TO DECKS NOT RECEIVING COVERING)	HULL, VENTILATION & PIPING INSULATION 2 COATS SAME AS BHDS & OVHDS SEE NOTE (41)	FOR COMP'T PIPING VENTILATION SEE NOTE (18)
	10	SAME AS LINE ***9***	2 COATS FORMULA 84, TT-P-645, ALKYD ZINC MOLYBDATE, 3 MILS DFT -- OR -- ONE COAT F-150, MIL-DTL-24441, 2-4 MILS DFT APPLY TOPCOAT WHILE FORMULA 150 IS STILL TACKY. IF 150 IS HARD, USE A TACK COAT PRIOR TO TOPCOAT. ***-- OR --*** ***ONE COAT MIL-PRF-23236, 3-5 MILS DFT*** SEE NOTES (1) & (38)	SAME AS LINE ONE	2 COATS DOD-E-24607, 3 MILS TOTAL	SAME AS LINE ONE	SAME AS LINE ONE	SAME AS LINE ONE
INTERIOR COMPARTMENTS (OVERCOAT)	11	POWER TOOL CLEANING, SSPC-SP-3	SAME AS LINE ONE FOR BARE METAL AREAS	SAME AS LINE ONE EXCEPT ONE COAT	SAME AS LINE ONE EXCEPT ONE COAT			

STEEL SURFACES TABLE 3 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C WELDING BAYS & LIGHT TRAPS	D BULKHEADS & OVERHEADS	E DECKS	F THERMAL INSULATION	G MARKINGS
LOCATION:	12	***INTENTIONALLY LEFT BLANK***						
	13	***INTENTIONALLY LEFT BLANK***						
	14	***INTENTIONALLY LEFT BLANK***						
FIRE ZONE BULKHEAD	15	SAME AS LINE 11	SAME AS LINE ONE		2 COATS THERMAL INSULATING (INTUMESCENT) PAINT, MIL-PRF-46081 -- OR -- MIL-PRF-24596 TYPE II, 5 MILS/COAT			
INTAKE VENT PLENUMS BETWEEN SKIN OF SHIP AND MOISTURE SEPARATORS	16	NEAR WHITE METAL BLAST, ***NACE 2/***SSPC-SP-10	ONE COAT CREAM SIGMA COATINGS EDGEGUARD PRIMER (PDS NO. 5427), ***6-8*** MILS DFT SEE NOTE (33)		ONE STRIPE COAT ***WD GRAY*** SIGMA EDGEGUARD (PDS NO. 5428), 8-12 MILS DFT -- & -- ONE COAT SIGMA COATINGS EDGEGUARD TOPCOAT (PDS NO. 5428), 10-***16*** MILS DFT SEE NOTE (33)	ONE STRIPE COAT ***WD GRAY*** SIGMA EDGEGUARD (PDS NO. 5428), 8-12 MILS DFT -- & -- ONE COAT SIGMA COATINGS EDGEGUARD TOPCOAT (PDS NO. 5428), 10-***16*** MILS DFT SEE NOTE (33)		
INTAKE VENT PLENUMS BETWEEN SKIN OF SHIP AND MOISTURE SEPARATORS	17	SAME AS LINE 16	ONE COAT ***BUFF*** SHERWIN WILLIAMS PRIMER (B622H220/B62V220), 6-8 MILS DFT SEE NOTE (33)		ONE STRIPE COAT GRAY SHERWIN WILLIAMS NOVA-PLATE TOPCOAT (B62A220/B62V220), 8-12 MILS DFT -- & -- ONE COAT WHITE SHERWIN WILLIAMS NOVA-PLATE UHS TOPCOAT (B62***W***220/B62V220), 10-***16*** MILS DFT SEE NOTE (33)	ONE STRIPE COAT GRAY SHERWIN WILLIAMS NOVA-PLATE TOPCOAT (B62A220/B62V220), 8-12 MILS DFT -- & -- ONE COAT WHITE SHERWIN WILLIAMS NOVA-PLATE UHS TOPCOAT (B62***W***220/B62V220), 10-***16*** MILS DFT SEE NOTE (33)		
	18	***WATERJETTING TO*** NACE 5/SSPC-SP-12 CONDITION WJ-2L	ONE COAT EURONAVY ES301K, 4-6 MILS WFT ***SEE NOTE (44)***		ONE STRIPE COAT EURONAVY ES301S, 4-6 MILS WFT -- & -- ONE FINAL COAT EURONAVY ES301S, 4-6 MILS WFT	ONE STRIPE COAT EURONAVY ES301S, 4-6 MILS WFT -- & -- ONE FINAL COAT EURONAVY ES301S, 4-6 MILS WFT		TOTAL SYSTEM 8-12 MILS DFT
INTERIOR DECK SURFACES	19	SAME AS LINE 12	SAME AS LINE 12					

STEEL SURFACES TABLE 3 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C WELDING BAYS & LIGHT TRAPS	D BULKHEADS & OVERHEADS	E DECKS	F THERMAL INSULATION	G MARKINGS
LOCATION: MIXING ROOM/UPTAKE SPACES WITH VENTS OR LOUVERS TO THE OUTSIDE ATMOSPHERE (BULKHEADS AND DECKS	20	NEAR WHITE METAL BLAST ***NACE 2***/SSPC-SP-10	ONE COAT SIGMA COATINGS EDGEGUARD PRIMER, 6-8 MILS DFT		ONE STRIPE COAT SIGMA COATINGS EDGEGUARD TOPCOAT, 8-12 MILS DFT ***-- & --*** ***ONE COAT SIGMA COATINGS EDGEGUARD TOPCOAT, 10-16 MILS DFT***	***ONE STRIPE COAT SIGMA COATINGS EDGEGUARD TOPCOAT, 8-12 MILS DFT*** ***-- & --*** ONE COAT SIGMA COATINGS EDGEGUARD TOPCOAT, 10-***16*** MILS DFT		
	21	SAME AS LINE 20	ONE COAT SHERWIN WILLIAMS PRIMER, 6-8 MILS DFT		ONE STRIPE COAT SHERWIN WILLIAMS NOVA-PLATE TOPCOAT, 8-12 MILS DFT ***-- & --*** ***ONE COAT SHERWIN WILLIAMS NOVA-PLATE TOPCOAT, 10-16 MILS DFT***	***ONE STRIPE COAT SHERWIN WILLIAMS NOVA-PLATE TOPCOAT, 8-12 MILS DFT*** ***-- & --*** ONE COAT SHERWIN WILLIAMS NOVA-PLATE TOPCOAT, 10-***16*** MILS DFT		
DECKS, INSIDE THE COAMING, UNDER AFFF PROPORTIONING UNITS	22	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11 ***-- OR --*** ***WATERJETTING TO NACE 5/SSPC-SP-12 CONDITION WJ-2L*** SEE NOTE (32)	ONE COAT BELZONA CERAMIC METAL 4311, 12-18 MILS DFT			ONE COAT BELZONA CERAMIC METAL 4311, 12-18 MILS DFT		
	23	SAME AS LINE 22	ONE COAT CHESTERTON ARC 855N, 12-18 MILS DFT			ONE COAT CHESTERTON ARC 855N, 12-18 MILS DFT		
	24	SAME AS LINE 22	ONE COAT PALMER-ENECON CERAMALLOY CL+, 12-18 MILS DFT			ONE COAT PALMER-ENECON CERAMALLOY CL+, 12-18 MILS DFT		

STEEL SURFACES TABLE 4	LINE	A SURFACE PREPARATION	B	C	D	E	F	G TOTAL
LOCATION: POTABLE WATER TANKS	1	NEAR WHITE METAL BLAST, ***NACE 2/***SSPC-SP-10 SEE NOTE (26)	ONE COAT INTERNATIONAL 5747/5748, GREEN, 4 MILS MAX EACH COAT	ONE COAT INTERNATIONAL 5753/5754, WHITE, 4 MILS MAX EACH COAT				TOTAL SYSTEM 6 MILS MIN, 8 MILS MAX SEE NOTE (37)
	2	SAME AS LINE ONE	ONE COAT TANKGUARD NO, ONE, 2-4 MILS	ONE COAT TANKGUARD NO. 3, 2-4 MILS EACH COAT				TOTAL SYSTEM 6 MILS MIN, 8 MILS MAX SEE NOTE (37)
	3	SAME AS LINE ONE	ONE COAT F-150, MIL-DTL-24441 TYPE III, 2-4 MILS SEE NOTE (1)	ONE COAT F-156, MIL-DTL-24441 TYPE III, 2-4 MILS SEE NOTE (1)	ONE COAT F-152, MIL-DTL-24441 TYPE III, 2-4 MILS SEE NOTE (1)			TOTAL SYSTEM 6 MILS MIN, 12 MILS MAX SEE NOTE (37)
	4	***INTENTIONALLY LEFT BLANK***						

STEEL SURFACES TABLE 5	LINE	A SURFACE PREPARATION	B	C	D	E	F	G TOTAL
LOCATION: FEEDWATER TANKS ONLY	1	NEAR WHITE METAL BLAST, ***NACE 2/***SSPC-SP-10 SEE NOTE (26)	ONE COAT F-150, MIL-DTL-24441 TYPE ***III***, ***2-4*** MILS SEE NOTE (1)	***ONE COAT F-151, MIL-DTL-24441, TYPE III, 2-4 MILS*** ***SEE NOTE (1)***	ONE COAT F-152, MIL-DTL-24441 TYPE ***III***, ***2-4*** MILS SEE NOTE (1)			TOTAL SYSTEM 8 MILS MIN, 12 MILS MAX
	2	SAME AS LINE ONE	CHAP 631, TABLE 631-8-5					

STEEL SURFACES TABLE 6	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E	F	G TOTAL
LOCATION: JP-5 TANKS, MOGAS TANKS, FUEL OIL SERVICE TANKS, DIESEL SERVICE TANKS, CONTAMINATED FUEL TANKS, FUEL COMP TANKS, FUEL STORAGE TANKS EDGE RETENTIVE-EXTENDED SERVICE LIFE 15-20 YEARS	1	NEAR WHITE METAL BLAST, ***NACE 2***/SSPC-SP-10 SEE NOTE (26)	ONE COAT CREAM SIGMA EDGEGUARD PRIMER (PDS NO. 5427), 6-8 MILS DFT SEE NOTE (33)	ONE STRIPE COAT ***WD GRAY*** SIGMA EDGEGUARD TOPCOAT (PDS NO. 5428), 8-12 MILS DFT SEE NOTE (33)	ONE COAT ***WD*** GRAY SIGMA EDGEGUARD TOPCOAT (PDS NO. 5428), 10-16 MILS DFT SEE NOTE (33)			
	2	***SAME AS LINE ONE***	***ONE COAT BUFF SHERWIN WILLIAMS PRIMER (B622H220/B62V220), 6-8 MILS DFT*** ***SEE NOTE (33)***	***ONE STRIPE COAT GRAY SHERWIN WILLIAMS NOVA-PLATE TOPCOAT (B62A220/B62V220), 8-12 MILS DFT*** ***SEE NOTE (33)***	***ONE COAT WHITE SHERWIN WILLIAMS NOVA-PLATE UHS TOPCOAT (B62W220/B62V220), 10-16 MILS DFT*** ***SEE NOTE (33)***			
JP-5 TANKS, MOGAS TANKS, FUEL OIL SERVICE TANKS, DIESEL SERVICE TANKS, CONTAMINATED FUEL TANKS, FUEL COMP TANKS, FUEL STORAGE TANKS EDGE RETENTIVE SERVICE LIFE 10-12 YEARS	***3***	NEAR WHITE METAL BLAST, ***NACE 2***/SSPC-SP-10	ONE COAT CREAM SIGMA EDGEGUARD PRIMER (PDS NO. 5427), 6-8 MILS DFT SEE NOTE (33)	ONE STRIPE COAT OFF-WHITE SIGMA EDGEGUARD TOPCOAT (PDS NO. 5428), 8-12 MILS DFT SEE NOTE (33)	ONE COAT ***WD*** GRAY SIGMA EDGEGUARD TOPCOAT (PDS NO. 5428), 10-16 MILS DFT SEE NOTE (33)			
	4	***SAME AS LINE ONE***	***SAME AS LINE 2***	***SAME AS LINE 2***	***SAME AS LINE 2***			
	5	***SAME AS LINE ONE***	***ONE COAT SHERWIN WILLIAMS DURA-PLATE UHS PRIMER, 4-8 MILS*** ***SEE NOTE (33)***	***ONE STRIPE COAT SHERWIN WILLIAMS DURA-PLATE UHS, 8-12 MILS*** ***SEE NOTE (33)***	***ONE COAT SHERWIN WILLIAMS DURA-PLATE UHS, 10-16 MILS*** ***SEE NOTE (33)***			***TOTAL SYSTEM 14 MILS MIN, 20 MILS MAX (22 MILS MIN, 33 MILS MAX ON CORNERS, EDGES, AND WELDS)***
JP-5 TANKS, MOGAS TANKS, FUEL OIL SERVICE TANKS, DIESEL SERVICE TANKS, CONTAMINATED FUEL TANKS, FUEL COMP TANKS, FUEL STORAGE TANKS NORMAL SERVICE LIFE 5-7 YEARS	***6***	SAME AS LINE ***3***	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)		ONE COAT F-152, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)			TOTAL SYSTEM 8 MILS MIN, 12 MILS MAX

STEEL SURFACES TABLE 6	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E	F	G TOTAL
LOCATION: (CON'T) JP-5 TANKS, MOGAS TANKS, FUEL OIL SERVICE TANKS, DIESEL SERVICE TANKS, CONTAMINATED FUEL TANKS, FUEL COMP TANKS, FUEL STORAGE TANKS NORMAL SERVICE LIFE 5-7 YEARS	***7***	SAME AS LINE ***3***	MIL-PRF-23236 SEE NOTE (10)	MIL-PRF-23236 SEE NOTE (10)				EACH COAT AND TOTAL SYSTEM - APPLY IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED DATA SHEETS
	8	***SAME AS LINE 3***	***ONE COAT SHERWIN WILLIAMS DURA-PLATE UHS PRIMER, 4-8 MILS*** ***SEE NOTE (33)***	***ONE STRIPE COAT SHERWIN WILLIAMS DURA-PLATE UHS, 8-12 MILS*** ***SEE NOTE (33)***	***ONE COAT SHERWIN WILLIAMS DURA-PLATE UHS, 10-16 MILS*** ***SEE NOTE (33)***			***TOTAL SYSTEM 14 MILS MIN, 20 MILS MAX (22 MILS MIN, 33 MILS MAX ON CORNERS, EDGES, AND WELDS)***
CHT/MSD TANKS	***9***	SAME AS LINE ONE	ONE COAT CREAM SIGMA EDGEGUARD PRIMER (PDS NO. 5427), 6-8 MILS DFT SEE NOTE (33)	ONE STRIPE COAT ***WD GRAY*** SIGMA EDGEGUARD TOPCOAT (PDS NO. 5428), 8-12 MILS DFT SEE NOTE (33)	ONE COAT WHITE SIGMA EDGEGUARD TOPCOAT (PDS NO. 5428), 10-16 MILS DFT SEE NOTE (33)			
	10	***SAME AS LINE ONE***	***ONE COAT BUFF SHERWIN WILLIAMS PRIMER (B622H220/B62V220), 6-8 MILS DFT*** ***SEE NOTE (33)***	***ONE STRIPE COAT GRAY SHERWIN WILLIAMS NOVA-PLATE TOPCOAT (B62A220/B62V220), 8-12 MILS DFT*** ***SEE NOTE (33)***	***ONE COAT WHITE SHERWIN WILLIAMS NOVA-PLATE UHS TOPCOAT (B62W220/B62V220), 10-16 MILS DFT*** ***SEE NOTE (33)***			

STEEL SURFACES TABLE 6 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E	F	G TOTAL
LOCATION: AFFF TANKS	***11***	SAME AS LINE ONE	ONE COAT F-150, MIL-DTL-24441, 2-4 MILS SEE NOTE (1)	ONE COAT F-151, MIL-DTL-24441, 2-4 MILS SEE NOTE (1)	ONE OR MORE COATS F-152, MIL-DTL-24441, 2-4 MILS SEE NOTE (1)			TOTAL SYSTEM 8 MILS MIN, 12 MILS MAX
	12	SAME AS LINE ONE	ONE COAT CREAM SIGMA EDGEGUARD PRIMER (PDS NO. 5427), 6-8 MILS DFT SEE NOTE (33)	ONE STRIPE COAT GREEN SIGMA EDGEGUARD TOPCOAT (PDS NO. 5428), 8-12 MILS DFT SEE NOTE (33)	ONE COAT WHITE SIGMA EDGEGUARD TOPCOAT (PDS NO. 5428), 10-16 MILS DFT SEE NOTE (33)			
BALLAST TANKS, FLOODABLE VOIDS (SUBSTRATE TEMPERATURE 50 DEGREES FAHRENHEIT AND ABOVE) EDGE RETENTION-EXTENDED SERVICE LIFE 15-20 YEARS	***13***	SAME AS LINE ONE	ONE COAT SIGMA MARINE COATINGS SIGMAGUARD BT 5404, AMBER, 4-5 MILS SEE NOTE (33)	ONE STRIPE COAT SIGMA MARINE COATINGS SIGMAGUARD BT 5411-S674, GRAY, 8-12 MILS SEE NOTE (33)	ONE COAT SIGMA MARINE COATINGS SIGMAGUARD BT 5411-S674, AQUA, 10-12 MILS SEE NOTE (33)			TOTAL SYSTEM 14 MILS MIN, 17 MILS MAX AREAS OF STRIPE COAT (CORNERS, EDGES & WELDS) 22 MILS MIN, 29 MILS MAX
	14	SAME AS LINE ONE	ONE COAT SHERWIN WILLIAMS DURA-PLATE UHS PRIMER, 4-8 MILS SEE NOTE (33)	ONE STRIPE COAT SHERWIN WILLIAMS DURA-PLATE UHS, 8-12 MILS SEE NOTE (33)	ONE COAT SHERWIN WILLIAMS DURA-PLATE UHS, 10-12 MILS SEE NOTE (33)			TOTAL SYSTEM 14 MILS MIN, 20 MILS MAX (22 MILS MIN, 29 MILS MAX ON CORNERS, EDGES, AND WELDS)
	15	***SAME AS LINE ONE***	***ONE PRIMER COAT AMERON AMERCOAT 133, 3-5 MILS*** ***SEE NOTE (33)***	***ONE STRIPE COAT AMERCOAT 333, 6-8 MILS*** ***SEE NOTE (33)***	***ONE COAT AMERCOAT 333, 10-16 MILS*** ***SEE NOTE (33)***			
	16	***SAME AS LINE ONE***	***ONE COAT INTERGARD 143 (THA 142/THA 148) OFF-WHITE, 4-8 MILS DFT***	***ONE STRIPE COAT INTERGARD 143 (THA 143/THA 148) BUFF, 8-12 MILS DFT***	***ONE COAT INTERGARD 143 (THA 144/THA 148) GRAY, 10-16 MILS DFT***			***TOTAL SYSTEM 14 MILS MIN, 24 MILS MAX*** ***AREAS OF STRIPE COAT (CORNERS, EDGES, AND WELDS) 22 MILS MIN, 36 MILS MAX***

STEEL SURFACES TABLE 6 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E	F	G TOTAL
LOCATION: BALLAST TANKS, FLOODABLE VOIDS (SUBSTRATE TEMPERATURE 50 DEGREES FAHRENHEIT AND ABOVE) EDGE RETENTIVE 10-12 YEARS	***17***	SAME AS LINE ***3***	ONE COAT SIGMA MARINE COATINGS SIGMAGUARD BT 5404, AMBER, 4-5 MILS SEE NOTE (33)	ONE STRIPE COAT SIGMA MARINE COATINGS SIGMAGUARD BT 5411 GRAY, 8-12 MILS SEE NOTE (33)	ONE COAT SIGMA MARINE COATINGS SIGMAGUARD BT 5411-S674, AQUA, 10-12 MILS SEE NOTE (33)			TOTAL SYSTEM 14 MILS MIN, 17 MILS MAX AREAS OF STRIPE COAT (CORNERS, EDGES & WELDS) 22 MILS MIN, 29 MILS MAX
	18	SAME AS LINE ***3***	ONE COAT SHERWIN-WILLIAMS DURA-PLATE UHS PRIMER, 4-8 MILS SEE NOTE (33)	ONE STRIPE COAT SHERWIN WILLIAMS DURA-PLATE UHS, 8-12 MILS SEE NOTE (33)	ONE COAT SHERWIN WILLIAMS DURA-PLATE UHS, 10-12 MILS SEE NOTE (33)			TOTAL SYSTEM 14 MILS MIN, 20 MILS MAX (22 MILS MIN, 29 MILS MAX ON CORNERS, EDGES, AND WELDS)
	19	***SAME AS LINE 3***	***ONE PRIMER COAT AMERON AMERCOAT 133, 3-5 MILS*** ***SEE NOTE (33)***	***ONE STRIPE COAT AMERCOAT 333, 6-8 MILS*** ***SEE NOTE (33)***	***ONE COAT AMERCOAT 333, 10-16 MILS*** ***SEE NOTE (33)***			
	20	***SAME AS LINE 3***	***ONE COAT INTERGARD 143 (THA 142/THA 148) OFF-WHITE, 4-8 MILS DFT***	***ONE STRIPE COAT INTERGARD 143 (THA 143/THA 148) BUFF, 8-12 MILS DFT***	***ONE COAT INTERGARD 143 (THA 144/THA 148) GRAY, 10-16 MILS DFT***			***TOTAL SYSTEM 14 MILS MIN, 24 MILS MAX*** ***AREAS OF STRIPE COAT (CORNERS, EDGES, AND WELDS) 22 MILS MIN, 36 MILS MAX***

STEEL SURFACES TABLE 6 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E	F	G TOTAL
LOCATION: BALLAST TANKS, FLOODABLE VOIDS (SUBSTRATE TEMPERATURE 50 DEGREES FAHRENHEIT AND ABOVE) NORMAL 5-7 YEARS SERVICE LIFE	***21***	SAME AS LINE ***3***	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)		ONE COAT F-152, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)			TOTAL SYSTEM 8 MILS MIN, 12 MILS MAX
	22	SAME AS LINE ***3***	MIL-PRF-23236	MIL-PRF-23236				SAME AS LINE ***7***
BALLAST TANKS, FLOODABLE VOIDS (USE ONLY WHEN SUBSTRATE TEMPERATURE CANNOT BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT) NORMAL 5-7 YEARS SERVICE LIFE	***23***	SAME AS LINE ***3***	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)		ONE COAT F-152, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)			TOTAL SYSTEM 8 MILS MIN, 12 MILS MAX
	24	SAME AS LINE ***3***	MIL-PRF-23236, GRADE A	MIL-PRF-23236, GRADE A				SAME AS LINE ***7***

STEEL SURFACES TABLE 7	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E	F	G TOTAL
LOCATION: CHAIN LOCKERS	1	NEAR WHITE METAL BLAST, ***NACE 2***/SSPC-SP-10 SEE NOTE (29)	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)		ONE COAT F-153 OR F-152, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)			TOTAL SYSTEM 8-12 MILS
	2	SAME AS LINE ONE	MIL-PRF-23236 SEE NOTE (10)	MIL-PRF-23236 SEE NOTE (10)				EACH COAT & TOTAL SYSTEM - APPLY IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED DATA SHEETS. SEE NOTE (11)
	3	SAME AS LINE ONE	ONE COAT INORGANIC ZINC PRIMER, 3-5 MILS, DOD-***PRF-24648*** -- OR -- CHAP 631, PARA 631-8.23.2.1	ONE MIST COAT F-150, 1-2 MILS WFT, MIL-DTL-24441 SEE NOTE (1)	ONE COAT F-151, MIL-DTL-24441, 2-4 MILS SEE NOTE (1)		ONE COAT F-152 OR F-153, MIL-DTL-24441, 2-4 MILS SEE NOTE (1)	TOTAL SYSTEM 10-16 MILS
NON-FLOODABLE VOIDS	4	SAME AS LINE ONE	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)		ONE COAT F-152, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)			TOTAL SYSTEM ***8-12*** MILS
	5	SAME AS LINE ONE	MIL-PRF-23236 SEE NOTE (10)	MIL-PRF-23236 SEE NOTE (10)				EACH COAT & TOTAL SYSTEM - APPLY IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED DATA SHEETS. SEE NOTE (11)
	6	INTENTIONALLY LEFT BLANK						

STEEL SURFACES TABLE 7 (CON'T)	LINE	A SURFACE PREPARATION	B	C PRIMER	D	E	F	G TOTAL
LOCATION: NON-FLOODABLE VOIDS	7	SAME AS LINE ONE	ONE COAT SIGMA MARINE COATINGS SIGMAGUARD BT 5404, AMBER, 4-5 MILS SEE NOTE (33)	ONE COAT SIGMA MARINE COATINGS SIGMAGUARD BT 5411-S674, AQUA, 10-12 MILS SEE NOTE (33)				TOTAL SYSTEM 14 MILS MIN, 17 MILS MAX AREAS OF STRIPE COAT (CORNERS, EDGES & WELDS) 22 MILS MIN, 29 MILS MAX
	8	SAME AS LINE ONE	ONE COAT SHERWIN-WILLIAMS DURA-PLATE UHS PRIMER, 4-8 MILS SEE NOTE (33)	ONE COAT SHERWIN-WILLIAMS DURA-PLATE UHS, 10-12 MILS SEE NOTE (33)				TOTAL SYSTEM 14 MILS MIN, 20 MIS MAX (22 MILS MIN, 29 MILS MAX ON CORNERS, EDGES AND WELDS)
	9	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11 SEE NOTE (40)	2 COATS F-84, ALKYD ZINC MOLYBDATE, TT-P-645, 3 MILS TOTAL	ONE COAT NO. 27875 (FED STD 595), MIL-PRF-24635, 3 MILS TOTAL				TOTAL SYSTEM 4.5-6 MILS
MACHINERY SPACES & BILGES	10	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11 SEE NOTES (29) & (40)	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)		BILGE AREA: ONE COAT F-156, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)	ABOVE BILGE AREA: 2 COATS F-124, DOD-E-24607, 2-4 MILS		TOTAL SYSTEM 8-12 MILS

STEEL SURFACES TABLE 7 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E	F	G TOTAL
LOCATION: MACHINERY SPACES & BILGES	11	SAME AS LINE 10	MIL-PRF-23236 SEE NOTE (10)	MIL-PRF-23236 SEE NOTE (10)		SAME AS LINE 10		EACH COAT & TOTAL SYSTEM - APPLY IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED DATA SHEETS SEE NOTE (11)
	12	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11 -- OR -- ***WATERJETTING TO*** NACE 5/SSPC-SP-12 CONDITION WJ-2L SEE NOTE (40)	ONE COAT EURONAVY ES301K, 4-6 MILS WFT ***SEE NOTE (44)***	STRIPE COAT EURONAVY ES301S, 4-6 MILS WFT	FINAL COAT EURONAVY ES301S, 4-6 MILS WFT	SAME AS LINE 10		TOTAL SYSTEM 8-12 MILS DFT

ALUMINUM SURFACES TABLE 8	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E KEEL TO BOTTOM OF BOOTTOP	F BOOTTOP	G DRAFT MARKS
LOCATION: UNDERWATER HULL (KEEL TO BOOTTOP, INCLUDING PROPULSION SHAFT OUTBOARD BEARING VOIDS) SEE NOTE (35)	1	NEAR WHITE METAL BLAST USING GARNET OR ALUMINUM OXIDE, MIL-A-21380 TYPE ONE OR MIL-A-22262 -- OR -- ***WATERJETTING TO*** NACE 5/SSPC-SP-12 CONDITION WJ-2L	ONE COAT INTERNATIONAL FPL 274/FPA 327, RED, 5 MILS, WITHIN 4 HOURS AFTER SURFACE PREPARATION SEE NOTE (4)	ONE COAT INTERNATIONAL FPJ 034/FPA 327,GRAY, 5 MILS SEE NOTE (4)	ONE COAT INTERNATIONAL BXA 380/BXA 381, DARK GRAY, 3-5 MILS	ONE COAT INTERNATIONAL BXA 816/BXA 821/BXA 822, GRAY, 6 MILS TOTAL	ONE COAT INTERNATIONAL BXA 816/BXA 821/BXA 822, GRAY, 6 MILS TOTAL	ONE COAT INTERNATIONAL BXA 819/BXA 821/BXA 822, BLACK***, 3-5 MILS***
	2	TOUCH-UP OR REMOVE PAINT SYSTEM TO SOUND PRIMER BY LIGHT ABRASIVE BLASTING WITH BLACK WALNUT SHELLS CONFORMING TO A-A-1722 TYPE 2 -- & -- SPOT CLEAN, CHAP 631, PARA 631-5.2.4.3 SEE NOTE (21)	FOR TOUCH-UP, OR FOLLOWING PAINT REMOVAL TO SOUND PRIMER, USE APPROPRIATE PAINT SYSTEM FROM LINE ONE					SAME AS LINE ONE
UNDERWATER HULL (KEEL TO BOOTTOP, INCLUDING PROPULSION SHAFT OUTBOARD BEARING VOIDS) SEE NOTE (35) APPLIES TO PHM'S ONLY	3	ABRASIVE BLASTING WITH ALUMINUM OXIDE, MIL-A-21380 TYPE ONE, OR BLACK WALNUT SHELLS CONFORMING TO A-A-1722 TYPE 2, TO SOUND PRIMER SEE NOTE (21)	FOR TOUCH-UP OR FOLLOWING PAINT REMOVAL TO SOUND PRIMER, USE APPROPRIATE PAINT SYSTEM FROM LINE ONE					SAME AS LINE ONE

ALUMINUM SURFACES TABLE 8 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E KEEL TO BOTTOM OF BOOTTOP	F BOOTTOP	G DRAFT MARKS
LOCATION: UNDERWATER HULL (STRUTS, RUDDERS & OTHER CAVITATION PRONE AREAS	4	SAME AS LINE ONE	ONE COAT MIL-DTL-24441, FORMULA 150, 3-4 MILS DFT, WITHIN 4 HOURS AFTER SURFACE PREPARATION SEE NOTE (1)	2 COATS OF INTERNATIONAL PGA 750/751 AT 25 MILS EACH FOR A TOTAL OF 50 MILS DFT		ANTI-FOULING PAINT SAME AS SURROUNDING HULL		
	5	SAME AS LINE ONE	ONE COAT AMERON AMERCOAT 235 RED, 3-4 MILS, WITHIN 4 HOURS AFTER SURFACE PREPARATION SEE NOTE (3)	SAME AS LINE 4		SAME AS LINE 4		
	6	SAME AS LINE ONE	ONE COAT INTERNATIONAL FPL 274/FPA 327, 3-4 MILS, WITHIN 4 HOURS AFTER SURFACE PREPARATION SEE NOTE (4)	SAME AS LINE 4		SAME AS LINE 4		

ALUMINUM SURFACES TABLE 9	LINE	A SURFACE PREPARATION	B PRIMER	C	D TOPCOAT	E HORIZONTAL SURFACES DECKS & FITTINGS	F MASTS & DECKS EXPOSED TO GASES	G VERTICAL SURFACES
LOCATION: EXTERIOR SURFACES ABOVE BOOTTOP	1	ABRASIVE BLASTING, USING GARNET, ALUMINUM OXIDE, OR BLACK WALNUT SHELLS CONFORMING TO A-A-1722 TYPE 2 -- & -- SPOT CLEANING, CHAP 631, PARA 631-5.2.4.3 -- OR -- ***WATERJETTING TO*** NACE 5/SSPC-SP-12 CONDITION WJ-2L SEE NOTE (21), (22) & (29)	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS, WITHIN 4 HRS AFTER SURFACE PREPARATION SEE NOTES (1) & (29)	ONE COAT F-151, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)		ONE COAT DECK GRAY NO. 26008 (FED STD 595), MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY), 3 MILS TOTAL	ONE COAT HAZE GRAY NO. 26270 (FED STD 595), MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY) -- OR -- MIL-E-24763 TYPE II, CLASS 2, 3 MILS TOTAL) -- OR -- INTERNATIONAL INTERLAC 1, PRODUCT #45587A HAZE GRAY (LOW SOLAR ABSORPTION ANTI-STAIN) ***-- OR --*** ***NILES CHEMICAL PAINT CO. PRODUCT N-7229C, HAZE GRAY (LOW SOLAR ABSORPTION ONLY)*** ***-- OR --*** ***AMERON AMERCOAT 7229C, HAZE GRAY (LOW SOLAR ABSORPTION ANTI-STAIN)***	ONE COAT HAZE GRAY NO. 26270 (FED STD 595), MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY) -- OR -- MIL-E-24763 TYPE II, CLASS 2, 3 MIS TOTAL PAINT DESIGNATIONS & MARKINGS MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY) -- OR -- INTERNATIONAL INTERLAC 1, PRODUCT #45587A HAZE GRAY (LOW SOLAR ABSORPTION ANTI-STAIN) ***-- OR --*** ***NILES CHEMICAL PAINT CO. PRODUCT N-7229C, HAZE GRAY (LOW SOLAR ABSORPTION ONLY)*** ***-- OR --*** ***AMERON AMERCOAT 7229C, HAZE GRAY (LOW SOLAR ABSORPTION ANTI-STAIN)*** ***SEE NOTE (43)***
	2	SAME AS LINE ONE		2 COATS F-84, TT-P-645, ALKYD ZINC MOLYBDATE, 3 MILS TOTAL		SAME AS LINE ONE	SAME AS LINE ONE	SAME AS LINE ONE

ALUMINUM SURFACES TABLE 9 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D TOPCOAT	E HORIZONTAL SURFACES DECKS & FITTINGS	F MASTS & DECKS EXPOSED TO GASES	G VERTICAL SURFACES
LOCATION: WALK AREAS ALL DECK AREAS OTHER THAN HANGAR, FLIGHT & VERTICAL REPLENISHMENT DECK AREAS	3	NEAR WHITE BLAST, ***NACE 2/***SSPC-SP-10, USING GARNET, ALUMINUM OXIDE OR BLACK WALNUT SHELLS CONFORMING TO A-A-1722 TYPE 2 -- OR -- ***WATERJETTING TO*** NACE 5/SSPC-SP-12 CONDITION WJ-2L SEE NOTES (21) &(22)	STRIPE COAT OF PROPRIETARY NON-SKID PRIMER LISTED ON THE QPL FOR MIL-PRF-24667 SEE NOTE (7)	PROPRIETARY NON-SKID PRIMER LISTED ON THE QPL FOR MIL-PRF-24667 SEE NOTE (7)		ONE COAT MIL-PRF-24667 TYPE I, II, OR III, COMP G -- OR -- ONE COAT MIL-PRF-24667 TYPE IV SEE NOTE (19)		
	4	SAME AS LINE 3	PROPRIETARY NON-SKID PRIMER LISTED ON THE QPL FOR MIL-PRF-24667 SEE NOTE (7)	STRIPE COAT OF PROPRIETARY NON-SKID PRIMER LISTED ON THE QPL FOR MIL-PRF-24667 SEE NOTE (7)	PROPRIETARY NON-SKID PRIMER LISTED ON THE QPL FOR MIL-PRF-24667 SEE NOTE (7)	SAME AS LINE 3		
HANGAR DECKS, FLIGHT DECKS & VERTICAL REPLENISHMENT DECK AREAS	5	SAME AS LINE 3	SAME AS LINE 3	SAME AS LINE 3		ONE COAT DARK GRAY, MIL-PRF-24667 TYPE I, COMP G		
	6	SAME AS LINE 4	SAME AS LINE 4	SAME AS LINE 4	SAME AS LINE 4	SAME AS LINE 5		
INTERIOR VERTICAL SURFACES	7	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11	ONE COAT F-150 MIL-DTL-24441 TYPE IV, 4-6 MILS APPLY TOPCOAT WHILE FORMULA 150 IS STILL TACKY. IF 150 IS HARD, USE A TACKY COAT PRIOR TO TOPCOAT. SEE NOTES (1) & (29)	ONE COAT F-151, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)	2 COATS DOD-E-24607, 2-4 MILS -- OR -- 2 COATS MIL-PRF-24596, WATER-BASED INTERIOR LATEX, 5 MILS MAX DFT -- OR -- 2 COATS NAVY FORMULA 25A, WATER-BASED FIRE RETARDANT COATING, 5 MILS MAX DFT			

ALUMINUM SURFACES TABLE 9 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D TOPCOAT	E HORIZONTAL SURFACES DECKS & FITTINGS	F MASTS & DECKS EXPOSED TO GASES	G VERTICAL SURFACES
LOCATION: VARIOUS	8	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11	ONE COAT F-150 MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTE (1)					

ALUMINUM SURFACES TABLE 10	LINE	A SURFACE PREPARATION	B PRIMER	C LIGHT TRAPS	D BULKHEADS & OVERHEADS	E DECKS	F THERMAL INSULATION	G MARKINGS
LOCATION: INTERIOR COMPARTMENTS COLORS TO BE SPECIFIED BY TYCOM OR SHIP'S COMMANDING OFFICER PER CHAP 631, PARA 631-8.23.4	1	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11, USING STAINLESS STEEL WIRE BRUSHES, STAINLESS STEEL PADS, OR ABRASIVE SANDING DISCS (ANSI/BHMA B74.18)	2 COATS FORMULA 84, TT-P-645, ALKYD ZINC MOLYBDATE, 3 MILS DFT	BHDS, OVHDS & DECKS, ONE COAT NO. 37038 (FED STD 595), MIL-PRF-24635, 3 MILS TOTAL	2 COATS MIL-PRF-24596, WATER-BASED INTERIOR LATEX, 5 MILS MAX DFT -- OR -- 2 COATS NAVY FORMULA 25A, WATER-BASED FIRE RETARDANT COATING, 5 MILS MAX DFT SEE NOTE (9)	ONE COAT NO. 27038 (FED STD 595), MIL-PRF-24635, 3 MILS TOTAL (TO DECKS NOT RECEIVING DECK COVERING)	HULL, VENTILATION & PIPING INSULATION 2 COATS SAME AS BHDS & OVHDS SEE NOTE***S (28) &*** (41)	FOR COMP'T PIPING & VENTILATION SEE NOTE (18)
	2	SAME AS LINE ONE	SAME AS LINE ONE	SAME AS LINE ONE	2 COATS DOD-E-24607, 3 MILS TOTAL	SAME AS LINE ONE	SAME AS LINE ONE	SAME AS LINE ONE
	3	SAME AS LINE ONE	ONE COAT F-150, MIL-DTL-24441, 2-4 MILS APPLY TOPCOAT WHILE FORMULA 150 IS STILL TACKY. IF 150 IS HARD, USE A TACK COAT PRIOR TO TOPCOAT. SEE NOTE (1) & (38)	SAME AS LINE ONE	SAME AS LINE 2	SAME AS LINE ONE	SAME AS LINE ONE	SAME AS LINE ONE
POTABLE WATER TANKS	4	NEAR WHITE BLAST, ***NACE 2/***SSPC-SP-10, TO ACHIEVE 1-1/2 TO 2 MILS ANCHOR PATTERN, USING GARNET OR ALUMINUM OXIDE	TABLE 4, LINES ONE THROUGH 4					
	5	INTENTIONALLY LEFT BLANK						
	6	INTENTIONALLY LEFT BLANK						

ALUMINUM SURFACES TABLE 10 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C LIGHT TRAPS	D BULKHEADS & OVERHEADS	E DECKS	F THERMAL INSULATION	G MARKINGS
LOCATION: FIRE ZONE BULKHEAD	7	SAME AS LINE ONE	ONE COAT F-150, MIL-DTL-24441, 2-4 MILS APPLY TOPCOAT WHILE FORMULA 150 IS STILL TACKY. IF 150 IS HARD, USE A TACK COAT PRIOR TO TOPCOAT. SEE NOTE (1)		2 COATS THERMAL INSULATING (INTUMESCENT) PAINT, MIL-PRF-46081, 5 MILS/COAT			
WET SPACES (WASH ROOMS, WATER CLOSETS, SHOWER STALLS, GALLEYS, SCULLERIES & STOREROOMS WHERE HEAVY CONDENSATION IS COMMON)	8	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11 SEE NOTES (28), (29) & (40)	ONE COAT F-150-MIL-DTL-24441 TYPE IV, 4-6 MILS APPLY TOPCOAT WHILE FORMULA 150 IS STILL TACKY. IF 150 IS HARD, USE A TACK COAT PRIOR TO TOPCOAT. SEE NOTES (1) & (29)		ONE COAT F-152, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)	ONE COAT F-151, MIL-DTL-24441 TYPE IV, 4-6 MILS TOTAL (TO DECKS NOT RECEIVING COVERING) SEE NOTE***S*** (1) ***& (29)***	SAME AS LINE ONE	SAME AS LINE ONE
	9	SAME AS LINE 8	MIL-PRF-23236		MIL-PRF-23236	MIL-PRF-23236	SAME AS LINE ONE	SAME AS LINE ONE
	10	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11	ONE COAT EURONAVY ES301K, 4-6 MILS WFT ***SEE NOTE (44)***		SHERWIN WILLIAMS DURA-PLATE UHS, ONE STRIPE COAT, 4-6 MILS WFT AND ONE FINAL COAT 4-6 MILS WFT TOTAL SYSTEM 12 MILS MAXIMUM	EURONAVY ES301S, ONE STRIPE COAT, 4-6 MILS WFT AND ONE FINAL COAT 4-6 MILS WFT TOTAL SYSTEM 12 MILS MAXIMUM		
MACHINERY SPACES AND BILGES	11	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11 -- OR -- ***WATERJETTING TO*** NACE 5/SSPC-SP-12 CONDITION WJ-2L	ONE COAT EURONAVY ES301K, 4-6 MILS WFT ***SEE NOTE (44)***		***ABOVE BILGE AREA: 2 COATS F-124, DOD-E-24607, 2-4 MILS***	***BILGE AREA: ONE STRIPE COAT EURONAVY ES301S, 4-6 MILS WFT -- & -- ONE FINAL COAT EURONAVY ES301S, 4-6 MILS WFT***		TOTAL SYSTEM 8-12 MILS DFT

ALUMINUM SURFACES TABLE 10 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C LIGHT TRAPS	D BULKHEADS & OVERHEADS	E DECKS	F THERMAL INSULATION	G MARKINGS
LOCATION: MACHINERY SPACES & BILGES	12	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11 SEE NOTE (29)	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)		ABOVE BILGE AREA: 2 COATS F-124, DOD-E-24607, 2-4 MILS	BILGE AREA: ONE COAT F-156, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)		TOTAL SYSTEM 8-12 MILS
	13	SAME AS LINE 12	MIL-PRF-23236 SEE NOTE (10)		MIL-PRF-23236 SEE NOTE (10)	SAME AS LINE 12		EACH COAT & TOTAL SYSTEM - APPLY IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED DATA SHEETS SEE NOTE (11)
INTAKE VENT PLENUMS, BETWEEN SKIN OF SHIP AND MOISTURE SEPARATORS	14	NEAR WHITE METAL BLAST, ***NACE 2/***SSPC-SP-10	ONE COAT CREAM SIGMA COATINGS EDGEGUARD PRIMER (PDS NO. 5427), ***6-8*** MILS DFT SEE NOTE (33)		ONE STRIPE COAT GREEN SIGMA EDGEGUARD TOP COAT (PDS NO. 5428), 8-12 MILS DFT -- & -- ONE COAT OFF-WHITE SIGMA COATINGS EDGEGUARD TOPCOAT (PDS NO. 5428), 10-***16*** MILS DFT SEE NOTE (33)	ONE STRIPE COAT GREEN SIGMA EDGEGUARD TOP COAT (PDS NO. 5428), 8-12 MILS DFT -- & -- ONE COAT OFF-WHITE SIGMA COATINGS EDGEGUARD TOPCOAT (PDS NO. 5428), 10-***16*** MILS DFT SEE NOTE (33)		
	15	SAME AS LINE 14	ONE COAT ***BUFF*** SHERWIN WILLIAMS PRIMER (B622H220/B62V220), 6-8 MILS DFT SEE NOTE (33)		ONE STRIPE COAT GRAY SHERWIN WILLIAMS NOVA-PLATE TOPCOAT (B62A220/B62V220), 8-12 MILS DFT -- & -- ONE COAT WHITE SHERWIN WILLIAMS NOVA-PLATE UHS TOPCOAT (B62***W***220/B62V220), 10-***16*** MILS DFT SEE NOTE (33)	ONE STRIPE COAT GRAY SHERWIN WILLIAMS NOVA-PLATE TOPCOAT (B62A220/B62V220), 8-12 MILS DFT -- & -- ONE COAT WHITE SHERWIN WILLIAMS NOVA-PLATE UHS TOPCOAT (B62***W***220/B62V220), 10-***16*** MILS DFT SEE NOTE (33)		
	16	***WATERJETTING TO*** NACE 5/SSPC-SP-12 CONDITION WJ-2L	SAME AS LINE 11		SAME AS LINE 11	SAME AS LINE 11		SAME AS LINE 11

ALUMINUM SURFACES TABLE 10 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C LIGHT TRAPS	D BULKHEADS & OVERHEADS	E DECKS	F THERMAL INSULATION	G MARKINGS
LOCATION: MIXING ROOM/UPTAKE SPACES WITH VENTS OR LOUVERS TO THE OUTSIDE ATMOSPHERE (BULKHEADS AND DECKS	17	NEAR WHITE METAL BLAST ***NACE 2/***SSPC-SP-10	ONE COAT SIGMA COATINGS EDGEGUARD PRIMER, 6-8 MILS DFT		ONE STRIPE COAT SIGMA COATINGS EDGEGUARD TOPCOAT, 8-12 MILS DFT -- & -- ONE COAT SIGMA COATINGS EDGEGUARD TOPCOAT, 10-***16*** MILS DFT	ONE STRIPE COAT SIGMA COATINGS EDGEGUARD TOPCOAT, 8-12 MILS DFT -- & -- ONE COAT SIGMA COATINGS EDGEGUARD TOPCOAT, 10-***16*** MILS DFT		
	18	SAME AS LINE 17	ONE COAT SHERWIN WILLIAMS PRIMER, 6-8 MILS DFT		ONE STRIPE COAT SHERWIN WILLIAMS NOVA-PLATE TOPCOAT, 8-12 MILS DFT -- & -- ONE COAT SHERWIN WILLIAMS NOVA-PLATE TOPCOAT, 10-***16*** MILS DFT	ONE STRIPE COAT SHERWIN WILLIAMS NOVA-PLATE TOPCOAT, 8-12 MILS DFT -- & -- ONE COAT SHERWIN WILLIAMS NOVA-PLATE TOPCOAT, 10-***16*** MILS DFT		

WOOD SURFACES TABLE 11	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E KEEL TO BOTTOM OF BOOTTOP	F BOOTTOP	G HULL DRAFT IDENT. MARKINGS
LOCATION: UNDERWATER HULL	1	BRUSH-OFF BLAST TO REMOVE LOOSE & DETERIORATED COATINGS -- OR -- HIGH-PRESSURE WASH TO REMOVE MARINE GROWTH & LOOSE PAINT SEE NOTE (20)	KEEL TO 6 INCHES ABOVE UPPER BOOTTOP LIMIT ONE COAT F-150, MIL-DTL-24441, 2-3 MILS SEE NOTE (1)			2 COATS F-121A, MIL-P-15931, 2-3 MILS EACH COAT, TO UNDERWATER HULL, APPENDAGES, SEA CHESTS & STRAINER PLATES UP TO BOTTOM OF BOOTTOPPING AREA MIN DRYING TIME OF 6 HRS BETWEEN COATS OF F-121A MIN DRYING TIME OF 24 HRS SHALL BE ALLOWED BETWEEN LAST COAT & UNDOCKING OF SHIP. PUTTY SCREW HEADS, WHERE COMPOUND IS MISSING, WITH CAULKING COMPOUND CONFORMING TO TT-C-1796 AFTER FIRST COAT OF F-121A SEE NOTE (27)	3 COATS F-129A, MIL-P-15931, 2-3 MILS EACH COAT MIN DRYING TIME OF 6 HRS BETWEEN COATS OF F-129A	ONE COAT NO. 26373 (FED STD 595), MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY) LT GRAY, TO BOOTTOPPING & BELOW, 3-4 MILS TOTAL ONE COAT NO. 26173 (FED STD 595), MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY) OCEAN GRAY, ABOVE BOOTTOPPING. MIN DRYING TIME OF 24 HRS SHALL BE ALLOWED BETWEEN LAST COAT & UNDOCKING OF SHIP

WOOD SURFACES TABLE 12	LINE	A SURFACE PREPARATION	B PRIMER	C DECKS, MASTS & SPARS	D ALL OTHER SURFACES	E ACCOMMODATION LADDER	F	G IDENT. MARKINGS
LOCATION: EXTERIOR ABOVE BOOTTOPPING	1	HAND TOOL CLEAN -- OR -- POWER TOOL CLEAN TO REMOVE DETERIORATED COATINGS	ONE COAT F-150, MIL-DTL-24441 SEE NOTE (1)	ONE COAT NO. 26008 (FED STD 595), MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY) 3 MILS TOTAL -- OR -- ONE COAT NO. 37038 (FED STD 595), MIL-PRF-24635, 3 MILS TOTAL	ONE COAT HAZE GRAY NO. 26270 (FED STD 595), MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY), 3 MILS TOTAL	4 COATS NAVSEA APPROVED SPAR VARNISH, 6 MILS MIN		PAINT DESIGNATIONS & MARKINGS MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY) -- OR -- INTERNATIONAL INTERLAC 1, PRODUCT #45587A HAZE GRAY (LOW SOLAR ABSORPTION ANTI-STAIN) -- OR -- NILES CHEMICAL PAINT CO. ***PRODUCT N-7229C HAZE GRAY (LOW SOLAR ABSORPTION ONLY)*** ***-- OR --*** ***AMERON AMERCOAT 7229C HAZE GRAY (LOW SOLAR ABSORPTION ANTI-STAIN)*** ***SEE NOTE (43)***

WOOD SURFACES TABLE 13	LINE	A SURFACE PREPARATION	B PRIMER	C	D BULKHEADS & OVERHEADS	E	F	G DESIGNATION & MARKINGS
LOCATION: INTERIOR COMPARTMENTS	1	HAND TOOL CLEAN -- & -- POWER TOOL CLEAN TO BARE WOOD OR TIGHTLY ADHERING INTACT PAINT	2 COATS FORMULA 84, ALKYD ZINC MOLYBDATE, TT-P-645, 3 MILS DFT		2 COATS MIL-PRF-24596, WATER-BASED INTERIOR LATEX, 5 MILS MAX DFT -- OR -- 2 COATS NAVY FORMULA 25A, WATER-BASED FIRE RETARDANT COATING, 5 MILS MAX DFT SEE NOTES (9) & (17)			FOR COMPARTMENT PIPING & VENTILATION SEE NOTE (18)
	2	SAME AS LINE ONE	ONE COAT F-150, MIL-DTL-24441 ***SEE NOTE (1)***		2 COATS DOD-E-24607, 3 MILS SEE NOTES (17) & (38)			SAME AS LINE ONE

VARIOUS LOCATIONS TABLE 14	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E	F TOTAL SYSTEM	G DESIGNATION & MARKINGS
LOCATION: UNHEATED PIPING, FITTINGS, VALVES	1	HAND TOOL CLEAN, SSPC-SP-2 -- & -- POWER TOOL CLEAN, SSPC-SP-3 SEE NOTE (40)	ONE COAT F-84, ALKYD ZINC MOLYBDATE, TT-P-645, 1.5 MILS ***-- OR --*** ***NILES CHEMICAL PAINT CO. PRODUCT N-6974, ONE MIL TOTAL***	ONE COAT F-84, ALKYD ZINC MOLYBDATE, TT-P-645, 1.5 MILS	2 COATS OF BILGE FINISH COAT TO MATCH SURROUNDING SURFACES, INCLUDING LAGGED SURFACES			ONE COAT MIL-PRF-24635, 1.5 MILS, FOR COLOR CODED SYSTEMS
	2	SAME AS LINE ONE	ONE COAT F-150, MIL-DTL-24441, 3 MILS SEE NOTE (1)		SAME AS LINE ONE			
UNHEATED FERROUS MACHINERY EXTERNAL SURFACES	3	SAME AS LINE ONE	SAME AS LINE ONE		ONE COAT F-111, MIL-E-15090, 1.5 MILS -- OR -- ONE COAT NO. 26307 (FED STD 595), MIL-PRF-24635, 3 MILS			
MACHINERY, GAGEBOARDS SEE NOTE (39)	4	SAME AS LINE ONE	SAME AS LINE ONE	2 COATS F-111, MIL-E-15090, 3 MILS TOTAL -- OR -- ONE COAT NO. 26307 (FED STD 595), MIL-PRF-24635, 3 MILS TOTAL				
FERROUS SHEET METAL SURFACES (UNHEATED, EXTERNAL & INTERNAL)	5	SAME AS LINE ONE	SAME AS LINE ONE	ONE COAT OF FINISH COAT TO MATCH SURROUNDING COMPARTMENT OR AREA				
UNINSULATED SIDE OF BULKHEAD OR SHELL ADJACENT TO SEA OR AC BOUNDARY	6	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11	ONE COAT F-150, MIL-DTL-24441, 3 MILS	ONE COAT F-151, MIL-DTL-24441, 3 MILS	FORMULA 34, ***DOD-E-24607***, 5 MILS ***WFT*** AS BINDER SEE NOTE (36)	VERMICULITE, ASTM C516 TYPE I, GRADE 4, SPRAYED	FORMULA 124, DOD-E-24607, 2-4 MILS DFT	
	7	SAME AS LINE 6	ONE COAT HEMPADUR ***45152-50630***, 5 MILS	ONE COAT ***HEMPEL ANTI-CONDENS 617US-10000***, 50-60 MILS				

VARIOUS LOCATIONS TABLE 14 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E	F TOTAL SYSTEM	G DESIGNATION & MARKINGS
LOCATION: BOILERS & ECONOMIZERS (EXCEPT PARTS USED FOR HEAT TRANSFER), MACHINERY CASINGS, FERROUS SHEET METAL & PIPING SURFACES EXCEEDING 125 DEGREES FAHRENHEIT	8	SAME AS LINE ONE	2 COATS OF HEAT RESISTANT PAINT, AMERCOAT 892HS, 3 MILS TOTAL SEE NOTE (39)		SAME AS LINE ONE			
ELECTRICAL EQUIPMENT, ELECTRONIC EQUIPMENT & CABLES	9	SAME AS LINE ONE	ONE COAT F-84, TT-P-645, ALKYD ZINC MOLYBDATE, 1.5 MILS	2 COATS F-111, MIL-E-15090, 3 MILS TOTAL -- OR -- ONE COAT NO. 26307 (FED STD 595), MIL-PRF-24635, 3 MILS TOTAL				
CABLE, INTERIOR (OTHER THAN PVC, LOW SMOKE)	10	SAME AS LINE ONE	2 COATS FORMULA 84, TT-P-645, ALKYD ZINC MOLYBDATE, 3 MILS	2 COATS F-25A OR 2 COATS WATER-BASED LATEX PER MIL-PRF-24596 -- OR -- ONE COAT OCEAN 634 AND 2 COATS OCEAN 9788	2 COATS DOD-E-24607 CHLORINATED ALKYD (FOR COLOR MATCH IF REQUIRED)			
CABLE, EXTERIOR (OTHER THAN PVC, LOW SMOKE)	11	SAME AS LINE ONE	SAME AS LINE 9	ONE COAT MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY) TO MATCH SURROUNDING AREA				
ELECTRICAL/ELECTRONIC CABLES (PVC, LOW SMOKE)	12	SAME AS LINE ONE	2 COATS MIL-PRF-24596, WATER-BASED LATEX -- OR -- 2 COATS OF FORMULA 25A -- OR --ONE COAT OCEAN 634 AND 2 COATS OCEAN 9788		2 COATS OF DOD-E-24607 (FOR COLOR MATCH IF REQUIRED)			

VARIOUS LOCATIONS TABLE 14 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E	F TOTAL SYSTEM	G DESIGNATION & MARKINGS
LOCATION: ANCHOR (SURFACE SHIP BOW ANCHORS) FOR ANCHORS BELOW LOWER BOOTTOPPING LIMIT, SEE NOTE (13)	13	NEAR WHITE METAL BLAST, ***NACE 2***/SSPC-SP-10 SEE NOTES (14) & (29)	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS -- OR -- ONE COAT MIL-PRF-23236, 3-5 MILS DFT SEE NOTES (1) & (29)	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS -- OR -- ONE COAT MIL-PRF-23236, 3-5 MIS DFT SEE NOTES (1) & (29)	ONE COAT HAZE GRAY, NO. 26270 (FED STD 595), MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY), 3 MILS TOTAL		7 MILS MIN, 11 MILS MAX	
ANCHOR CHAIN	14	COMMERCIAL BLAST CLEAN, SSPC-SP-6 SEE NOTES (14) & (16)	ONE COAT AMERON PSX 700 TO HOLD BLAST, 1-2 MILS	ONE COAT AMERON PSX 700, 4-5 MILS	ONE COAT AMERON PSX 700, 4-5 MILS		10 MILS MIN, 12 MILS MAX	AMERON PSX 700 SEE NOTE (15)
GALVANIZED SURFACES	15	BRUSH-OFF BLAST, SSPC-SP-7 -- OR -- POWER TOOL CLEAN, SSPC-SP-3 SEE NOTES (14) & (29)	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)		ONE COAT F-152, F-153 OR F-156, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)		8 MILS MIN, 12 MILS MAX	
EXHAUST PIPE EXTERIOR	16	NEAR WHITE METAL BLAST, ***NACE 2***/SSPC-SP-10		ONE COAT AMERCOAT 892HS, HAZE GRAY #26270, 2-3 MILS DFT			NOT TO EXCEED 5 MILS DFT	
PCMS (REPAIRS)	17	STRIP PAINT, USING "PEEL-AWAY-7" ***-- OR --*** ***PLASTIC MEDIA BLASTER*** ***-- OR --*** ***SODIUM BICARBONATE MEDIA BLASTER*** SEE REPAIR & INSTALLATION METHODS, RIM 05T1-99			ONE COAT HAZE GRAY, MIL-E-24763 (LOW SOLAR ABSORPTION ONLY), 3-5 MILS WFT (TOP COAT OF PCMS) ***SEE NOTE (45)***			
PCMS (NEW INSTALLATION)	18	NEAR WHITE METAL BLAST, ***NACE 2***/SSPC-SP-10 -- OR -- POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS DFT SEE NOTES (1) & (29)	ONE COAT F-151, MIL-DTL-24441 TYPE IV, 4-6 MILS DFT SEE NOTES (1) & (29)	SAME AS LINE 17			

VARIOUS LOCATIONS TABLE 14 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E	F TOTAL SYSTEM	G DESIGNATION & MARKINGS
LOCATION: INTERIOR DECK PASSAGEWAYS NOT RECEIVING DECK COVERINGS SEE NOTE (12)	19	NEAR WHITE METAL BLAST ***NACE 2/***SSPC- SP-10 -- OR -- POWER TOOL CLEAN TO BARE METAL SSPC- SP-11	ONE COAT AMERON AMERCOAT 238, 10 MILS	ONE COAT AMERON AMERCOAT 238, 10 MILS				
	20	SAME AS LINE 19	SIGMAGUARD CSF GLASS FLAKE 5487, 10 MILS	SIGMAGUARD CSF GLASS FLAKE 5487, 10 MILS				

STEEL SURFACES TABLE 15	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E	F	G TOTAL SYSTEM
LOCATION: STRUCTURE & FITTINGS BELOW DECK PLATES IN MACHINERY SPACES (BILGES, BILGE WELLS & SUMPS) NOTE: FOR RECOAT OR TOUCH-UP OF EXISTING COATING SYSTEMS ONLY. FOR COMPLETE BILGE COATING, SEE TABLE 7, LINES 10, 11, OR 12	1	POWER TOOL CLEAN TO BARE METAL, SSPC-SP-11 -- OR -- ***WATERJETTING TO*** NACE 5/SSPC-SP-12 CONDITION WJ-2L SEE NOTES (29) & (40)	ONE COAT F-150, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)		ONE COAT F-156, MIL-DTL-24441 TYPE IV, 4-6 MILS SEE NOTES (1) & (29)			8 MILS MIN,12 MILS MAX
	2	SAME AS LINE ONE	MIL-PRF-23236 SEE NOTE (10)					EACH COAT & TOTAL SYSTEM - APPLY IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED DATA SHEETS SEE NOTE (11)

GRP FIBERGLASS SURFACES TABLE 16	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E KEEL TO BOTTOM OF BOOTTOP	F BOOTTOP	G DRAFT MARKS
LOCATION: UNDERWATER HULL (KEEL TO TOP OF BOOTTOP SERVICE LIFE FOR 2 YEARS OR LESS	1	HIGH PRESSURE WASH TO REMOVE MARINE GROWTH AND LOOSE PAINT -- OR -- TOUCH-UP OR REMOVAL OF PAINT SYSTEM TO SOUND PRIMER BY LIGHT ABRASIVE BLASTING WITH BLACK WALNUT SHELLS CONFORMING TO A-A-1722 TYPE 2 -- & -- SPOT CLEAN, CHAP 631-5.2.6 SEE NOTE (21)	ONE COAT F-150, MIST COAT, MIL-DTL-24441 SEE NOTE (1)	ONE COAT F-151, 3-4 MILS, MIL-DTL-24441 SEE NOTE (1)		2 COATS F-121A, 2 MILS/COAT, 4 MILS MIN TOTAL, MIL-P-15931 MIN DRYING TIME OF 24 HRS SHALL BE ALLOWED BETWEEN LAST COAT AND UNDOCKING OF SHIP SEE NOTE (27)	2 COATS F-129A, 2 MILS/COAT, 4 MILS MIN TOTAL, MIL-P-15931 MIN DRYING TIME OF 24 HRS SHALL BE ALLOWED BETWEEN LAST COAT AND UNDOCKING OF SHIP SEE NOTE (27)	ONE COAT MIL-PRF-24635, LT GRAY, COLOR NO. 26373 (***LOW SOLAR ABSORPTION ONLY***) TO BOOTTOPPING & BELOW***, 3 MILS*** ONE COAT COLOR NO. 26173 (FED STD 595), MIL-PRF-24635, OCEAN GRAY ***(LOW SOLAR ABSORPTION ONLY)*** ABOVE BOOTTOPPING***, 3 MILS***
UNDERWATER HULL (KEEL TO TOP OF BOOTTOP 5 YEARS SERVICE LIFE	2	SAME AS LINE ONE	ONE COAT INTERNATIONAL FPL 274/FPA 327, MIST COAT -- OR -- KHA303/KHA062 MIST COAT SEE NOTE (4)	ONE COAT INTERNATIONAL FPJ 034/FPA 327, 5 MILS -- OR -- KHA302/KHA062, 5 MILS SEE NOTE (4)		ONE COAT BRA 642 BLACK, ONE COAT BRA 640 RED, 5 MILS/COAT SEE NOTES (2) & (6)	2 COATS BRA 642 BLACK, 5 MILS/COAT SEE NOTE (6)	SAME AS LINE ONE
	3	SAME AS LINE ONE	ONE COAT AMERON AMERCOAT 235, MIST COAT	ONE COAT AMERON AMERCOAT 235, 5 MILS		ONE COAT ***AMERON*** ABC3 BLACK, ONE COAT ***AMERON*** ABC3 RED, 5 MILS EACH COAT SEE NOTES (2) & (6)	2 COATS ***AMERON*** ABC3 BLACK, 5 MILS EACH COAT SEE NOTE (6)	SAME AS LINE ONE
	4	SAME AS LINE ONE	ONE COAT HEMPADUR ***45152-50630*** RED, 5 MILS SEE NOTE (5)	ONE COAT HEMPADUR ***45152-11480*** GRAY, 5 MILS SEE NOTE (5)		ONE COAT OLYMPIC ***76600-19990*** BLACK -- & -- ONE COAT OLYMPIC ***76600-51110*** RED, 5 MILS/COAT SEE NOTES (2) & (6)	2 COATS OLYMPIC ***76600-19990*** BLACK, 5 MILS/COAT SEE NOTE (6)	SAME AS LINE ONE

GRP FIBERGLASS SURFACES TABLE 16 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E KEEL TO BOTTOM OF BOOTTOP	F BOOTTOP	G DRAFT MARKS
LOCATION: UNDERWATER HULL (KEEL TO TOP OF BOOTTOP) 7 YEARS SERVICE LIFE	5	SAME AS LINE ONE	ONE COAT INTERNATIONAL FPL 274/FPA 327, MIST COAT -- OR -- KHA303/KHA062 MIST COAT SEE NOTE (4)	ONE COAT INTERNATIONAL FPJ 034/FPA 327, 5 MILS -- OR -- KHA302/KHA062, 5 MILS SEE NOTE (4)		ONE COAT BRA 642 BLACK, ONE COAT BRA 640 RED, 6 MILS/COAT SEE NOTES (2) & (6)	2 COATS BRA 642 BLACK, 6 MILS/COAT SEE NOTE (6)	SAME AS LINE ONE
	6	SAME AS LINE ONE	ONE COAT AMERON AMERCOAT 235, MIST COAT	ONE COAT AMERON AMERCOAT 235, 5 MILS		ONE COAT ***AMERON*** ABC3 BLACK, ONE COAT ***AMERON*** ABC3 RED, ***6*** MILS EACH COAT SEE NOTES (2) & (6)	2 COATS ***AMERON*** ABC3 BLACK, ***6*** MILS EACH COAT SEE NOTE (6)	SAME AS LINE ONE
	7	SAME AS LINE ONE	ONE COAT HEMPADUR ***45152-50630*** RED, 5 MILS SEE NOTE (5)	ONE COAT HEMPADUR ***45152-11480*** GRAY, 5 MILS SEE NOTE (5)		ONE COAT OLYMPIC ***76600-19990*** BLACK -- & -- ONE COAT OLYMPIC ***76600-51110*** RED, 6 MILS/COAT SEE NOTES (2) & (6)	2 COATS OLYMPIC ***76600-19990*** BLACK, 6 MILS/COAT SEE NOTE (6)	SAME AS LINE ONE
UNDERWATER HULL (KEEL TO TOP OF BOOTTOP) 10 TO 12 YEARS SERVICE LIFE	8	SAME AS LINE ONE	ONE COAT INTERNATIONAL FPL 274/FPA 327, MIST COAT -- OR -- KHA303/KHA062 MIST COAT SEE NOTE (4)	ONE COAT INTERNATIONAL FPJ 034/FPA 327, 5 MILS -- OR -- KHA302/KHA062, 5 MILS SEE NOTE (4)		ONE COAT BRA 640 RED, ONE COAT BRA 642, BLACK, ONE COAT BRA 640 RED, 6 MILS/COAT SEE NOTES (2) & (6)	2 COATS BRA 642 BLACK, 6 MILS/COAT SEE NOTE (6)	SAME AS LINE ONE
	9	SAME AS LINE ONE	ONE COAT AMERON AMERCOAT 235, MIST COAT	ONE COAT AMERON AMERCOAT 235, 5 MILS		ONE COAT ***AMERON*** ABC3 RED, ONE COAT ***AMERON*** ABC3 BLACK, ONE COAT ***AMERON*** ABC3 RED, 5 MILS EACH COAT SEE NOTES (2) & (6)	3 COATS ***AMERON*** ABC3 BLACK, 5 MILS EACH COAT SEE NOTE (6)	SAME AS LINE ONE

GRP FIBERGLASS SURFACES TABLE 16 (CON'T)	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E KEEL TO BOTTOM OF BOOTTOP	F BOOTTOP	G DRAFT MARKS
LOCATION: UNDERWATER HULL (KEEL TO TOP OF BOOTTOP) 10 TO 12 YEARS SERVICE LIFE	10	SAME AS LINE ONE	ONE COAT HEMPADUR ***45152-50630*** RED, 5 MILS SEE NOTE (5)	ONE COAT HEMPADUR ***45152-11480*** GRAY, 5 MILS SEE NOTE (5)		ONE COAT OLYMPIC ***76600-51110*** RED -- & -- ONE COAT OLYMPIC ***76600-19990*** BLACK -- & -- ONE COAT OLYMPIC ***76600-51110*** RED, 5 MILS/COAT SEE NOTES (2) & (6)	3 COATS OLYMPIC ***76600-19990*** BLACK, 6 MILS/COAT SEE NOTE (6)	SAME AS LINE ONE
UNDERWATER HULL METAL APPENDAGES (STRUTS, RUDDERS & OTHER CAVITATION PRONE AREAS) 2 YEARS OR LESS SERVICE LIFE	11	SAME AS LINE ONE	ONE COAT MIL-DTL-24441, FORMULA 150, 3-4 MILS SEE NOTE (1)	2 COATS OF INTERNATIONAL PGA 750/751 AT 25 MILS EACH FOR A TOTAL OF 50 MILS DFT		ANTI-FOULING PAINT SAME AS SURROUNDING HULL		
UNDERWATER HULL METAL APPENDAGES (STRUTS, RUDDERS & OTHER CAVITATION PRONE AREAS) 5 TO 10 YEARS SERVICE LIFE	12	SAME AS LINE ONE	ONE COAT INTERNATIONAL FPL 274/FPA 327, 3-4 MILS SEE NOTE (4)	SAME AS LINE 11		SAME AS LINE 11 SEE NOTE (6)	SEE NOTE (6)	
	13	SAME AS LINE ONE	ONE COAT AMERON AMERCOAT 235, 3-4 MILS SEE NOTE (3)	SAME AS LINE 11		SAME AS LINE 11 SEE NOTE (6)	SEE NOTE (6)	
	14	SAME AS LINE ONE	ONE COAT HEMPADUR ***45152-50630*** RED, 3-4 MILS	SAME AS LINE 11		SAME AS LINE 11 SEE NOTE (6)	SEE NOTE (6)	

GRP FIBERGLASS SURFACES TABLE 17	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E HORIZ SURFACES DECKS & FITTINGS	F MASTS & STACKS EXPOSED TO GASES	G VERTICAL SURFACES
LOCATION: EXTERIOR SURFACES ABOVE BOOTTOP SEE NOTE (2)	1	HIGH PRESSURE WASH TO REMOVE MARINE GROWTH & LOOSE PAINT -- OR -- TOUCH-UP OR REMOVAL OF PAINT SYSTEM TO SOUND PRIMER BY LIGHT ABRASIVE BLASTING WITH BLACK WALNUT SHELLS CONFORMING TO A-A-1722 TYPE 2 -- & -- SPOT CLEAN, CHAP 631-5.2.6 SEE NOTE (21)	ONE COAT F-150, MIL-DTL-24441, 2-4 MILS SEE NOTE (1)	ONE COAT F-151, MIL-DTL-24441, 2-4 MILS SEE NOTE (1)		ONE COAT DECK GRAY NO. 26008 (FED STD 595), MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY), 3 MILS TOTAL	ONE COAT HAZE GRAY NO. 26270 (FED STD 595), MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY) -- OR -- MIL-E-24763 TYPE II, CLASS 2, 3 MILS TOTAL	ONE COAT HAZE GRAY NO. 26270 (FED STD 595), MIL-PRF-24635 (LOW SOLAR ABSORPTION ONLY) -- OR -- MIL-E-24763 TYPE II, CLASS 2, 3 MILS TOTAL ***-- OR --*** ***NILES CHEMICAL PAINT CO. PRODUCT N-7229C HAZE GRAY (LOW SOLAR ABSORPTION ONLY)*** ***-- OR --*** ***AMERON AMERCOAT 7229C HAZE GRAY (LOW SOLAR ABSORPTION ANTI-STAIN)*** ***SEE NOTE (43)***
EXTERIOR WALK AREAS ALL EXTERIOR DECK AREAS	2	POWER TOOL CLEAN TO CLEAN FIBERGLASS (DISC SANDER, ETC.) -- OR -- POWER TOOL CLEAN TO POLYURETHANE OVERLAY SUBSTRATE (DISC SANDER, ETC.) -- OR -- HYDROBLAST TO CLEAN FIBERGLASS SEE NOTE (25)	PROPRIETARY NON-SKID PRIMER LISTED ON THE QPL FOR MIL-PRF-24667 SEE NOTE (7)			ONE COAT MIL-PRF-24667 TYPE I, II, OR III, COMP G -- OR -- MIL-PRF-24667 TYPE IV SEE NOTE (19)		

FIBROUS GLASS BOARDS (INTERIOR) TABLE 18	LINE	A SURFACE PREPARATION	B PRIMER	C BULKHEADS & OVERHEADS	D	E	F	G
LOCATION: INTERIOR FIBROUS GLASS BOARDS	1	SOAP & WATER CLEAN & HAND SAND AS NECESSARY	ONE COAT FORMULA 84, TT-P-645, ALKYD ZINC MOLYBDATE, 1.5 MILS	2 COATS WATER-BASED INTERIOR LATEX, MIL-PRF-24596 -- OR -- 2 COATS NAVY F-25A FIRE RETARDANT INTERIOR LATEX				
	2	SAME AS LINE ONE	ONE COAT F-150, MIL-DTL-24441 SEE NOTE (1)	2 COATS OF FINISH COAT DOD-E-24607, F-124, 125, OR 126 (COLOR TO BE DESIGNATED)				